Underground Storage Tank Closure Report

Prepared for:

U.S. Army Corps of Engineers New York District 1900 Hempstead Tumpike, Suite 316 East Meadow, New York 11554

Site:

Building No. 413 UST No. 413NW Sievers-Sandberg United States Army Reserve Center Pedricktown, New Jersey

Prepared by:

Earth Tech, Inc. 2229 Tomlynn Street Richmond, Virginia 23230

August 1, 1997

Contract No. DACW31-95-D-0097 Delivery Order No. 0015 ET Job No. 21574

Client: United States Army Corps of Engineers
Project Name: Sievers-Sandberg United States Army Reserve Center, Building 404

ET Job No.: 21574

This document has been reviewed for technical content and quality, clarity, and style in accordance with the internal QA/QC procedures of Earth Tech, Inc.

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EXECUTIVE SUMMARY

This report details the clean closure of an underground storage tank (UST) and fulfills the requirements of Earth Tech, Inc.'s (Earth Tech's) site investigation reporting as detailed in the New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for site remediation (NJAC 7:26E - 3.10).

Earth Tech has been contracted by the U.S. Army Corps of Engineers (USACE), Baltimore District, for the removal of an 11,000-gallon fiberglass UST (designated UST-413-NW) at Building No. 413 of the Sievers-Sandberg United States Army Reserve Center (USARC), Pedricktown, New Jersey, under Contract No. DACW31-95-D-0097, Delivery Order No. 0015.

Prior to tank closure, 50 gallons of gasoline were removed from the tank. Closure of the UST was conducted on May 12, 1997. The UST was excavated and removed by Earth Tech, a NJDEP-approved UST closure contractor (Registration No. US00537). Upon removal, the UST condition was examined by a NJDEP-licensed UST Subsurface Evaluator (License No. US00516). No pinholes were observed in the UST upon removal. Earth Tech cleaned the UST, which was then transported to the BFI Transcyclery Landfill in Philadelphia, Pennsylvania, for disposal. The tank contents were transported by Casie Ecology Oil Salvage, Inc., of Vineland, New Jersey, for recycling. The waste generated during tank cleaning activities was drummed and stored on site pending analytical results for disposal.

No soil staining was observed beneath the former base of the UST or beneath the piping. Photoionization detector (PID) field screening indicated volatile organic vapor levels below 20 parts per million (ppm) for the excavation and excavated soils. During removal, the UST broke and soils contacted the uncleaned tank interior. These excavated soils that came into contact with the interior of the tank before it was cleaned were segregated and stockpiled on site for later disposal. The remaining excavated soils were used as backfill material.

All sampling and analysis was performed in accordance with NJDEP Post-Remedial Action Requirements (NJAC 7:26E - 6.4). Ground water was encountered in the tank excavation at approximately 7 feet below grade. No sheen was observed on the groundwater. Ten confirmatory soil samples were collected from the excavation sidewalls (above the saturation zone) and from under the dispenser and supply line, and analyzed for Volatile Organic Compounds (VOCs) Method 8260/624 and lead by a NJDEP-certified laboratory.

Six soil samples had VOC concentrations below the respective method detection limits for the individual analytes. The remaining four soil samples had detected individual VOC concentrations ranged from 14.5 $\mu g/Kg$ to 22,000 $\mu g/Kg$, and total VOC concentrations ranging from 26.0 $\mu g/Kg$ to 162,050 $\mu g/Kg$. These are below the NJDEP criteria of 1,000 mg/Kg for total VOCs in soil. Lead concentrations ranged from 8.7 mg/Kg to 121 mg/Kg, which are below the NJDEP Cleanup Criteria of 400 mg/Kg for lead in soil.

One sidewall sample had xylene concentrations above the NJDEP Soil Cleanup Criteria. All other xylene concentrations from the sidewall samples were well below the cleanup criteria.

Based on field observations and analytical data, Earth Tech recommends no further action relative to the former UST.

1.0 INTRODUCTION

Earth Tech, Inc. (Earth Tech) has been contracted by the United States Army Corps of Engineers (USACE), Baltimore District, for the removal of underground storage tanks (USTs) at the Sievers-Sandberg United States Army Reserve Center (USARC), Pedricktown, New Jersey, under Contract No. DACW31-95-D-0097, Delivery Order No. 0015. This report details the clean closure of an UST at Building No. 413 at the USARC. A Site Location Map is included as Figure 1 in Appendix A. This report fulfills the requirements of site investigation reporting as detailed in the New Jersey Technical Requirements for Site Remediation (NJAC 7:26E-3.10). This report provides an overview of the site investigation, analytical results, and recommendations.

The USARC property was acquired by the USACE in 1917, and the Delaware Ordinance Depot was established at Pedricktown in 1918. The depot became the backup storage facility for the Picatinny and Frankfort Arsenals and the Aberdeen Proving Ground. In 1960, the Pedricktown facility became the headquarters for the 42nd and 43rd Artillery, which commanded the Nike Missile Sites in the Philadelphia area. In 1965, the Salem County Technical Institute gained control of the site. In the late 1960s, the 79th Army Reserve Command and the 21st Corps were replaced by the 78th Division of the Army reserves, which is still stationed at the facility. The eastern portion of the property is currently leased by the Salem Community College.

Building No. 413 was previously used as a fueling station. The 11,000-gallon UST removed from the site was formerly used to store gasoline to fuel government vehicles. The UST was a regulated tank (per NJAC 58:10); therefore, the UST was registered with and an UST Closure Plan submitted to the New Jersey Department of Environmental Protection (NJDEP) prior to initiating closure activities. The NJDEP UST Closure Approval is included in Appendix B.

2.0 SITE ASSESSMENT

On May 12, 1997, Earth Tech, a NJDEP-approved UST Closure Contractor (Certification No. US00537), removed one 11,000-gallon fiberglass UST at the site (See Figure 2, Appendix A). Two other tanks were removed from around Building 413, and separate tank closure reports were prepared and submitted to the NJDEP. Photographs were taken to document site activities, however the film was damaged during the development process. The UST was oriented parallel to the north side of Building No. 413. No utility lines were located in the vicinity of the UST. Prior to excavation activities, approximately 50 gallons of gasoline were removed from the tank by Casie Ecology Oil Salvage, Inc., of Vineland. New Jersey, for recycling. A copy of the Certificate of Recycling/Disposal is included in Appendix C.

Earth Tech personnel screened the UST with a lower explosive limit (LEL) meter. Readings were taken before excavating and cutting the tank for cleaning. The LEL level registered 2 percent prior to excavating and cleaning the UST. Oxygen levels before excavation and before cleaning were 19.2 percent. The tank was not purged prior to initiating tank closure activities based on the low vapor readings.

Upon tank removal, Mr. Julian Canuso, Jr., a NJDEP-licensed UST Subsurface Evaluator (License No. US00516) examined the excavated UST. No holes were observed in the UST. The UST measured approximately 30 feet long by 8 feet in diameter. Earth Tech personnel rinsed the UST prior to removal and cleaned the UST using dry methods after removal. The fiberglass tank ruptured during removal allowing some soils to fall into the rinsed, but uncleaned tank. These soils were segregated and stockpiled for later disposal. The absorbent waste generated during tank cleaning activities was drummed

and stored on site for later disposal pending analytical results. After cleaning the tank was taken to the BFI Transcyclery Landfill for disposal. The Certificate of Tank Disposal is included in Appendix D.

Earth Tech personnel examined the UST excavation and piping trench after removing the tank and the associated piping. No soil staining was observed beneath the former UST or piping. Earth Tech screened the stockpiled soil and the bottom and sides of the excavation using a photoionization detector (PID). The maximum PID reading was 20 parts per million (ppm). Based on the PID field screening, no soils were deemed contaminated (i.e., no PID readings greater than 100 ppm). Groundwater was encountered in the excavation at a depth of approximately 7.5 feet. No sheen was observed on the water.

Confirmatory soil samples were collected in accordance with NJAC 7:26E-6.4. Earth Tech personnel collected a total of ten soil samples: eight from the excavation sides (PED-B413NW-SS-01, PED-B413NW-SS-02, PED-B413NW-SS-03, PED-B413NW-SS-04, PED-B413NW-SS-05, PED-B413NW-SS-06, PED-B413NW-SS-07, and PED-B413NW-SS-08); and two from beneath the product line and dispenser (PED-B413NW-SS-09 and PED-B413NW-SS-10, respectively). Earth Tech submitted a split sample of PED-B413NW-SS-07 as a duplicate (identified as PED-B413NW-D-07) for quality control purposes. See Figure 2 in Appendix A for sample locations. Soil samples were analyzed for Volatile Organic Compounds (VOCs) and lead using United States Environmental Protection Agency (EPA) Methods 8260/624 and 3050, respectively. The soil samples were analyzed by Toxikon Corporation (Toxikon), a NJDEP-certified laboratory.

Analytical results of soil samples PED-B413NW-SS-04, PED-B413NW-SS-06, PED-B413NW-SS-07, PED-B413NW-SS-08, PED-B413NW-SS-09, PED-B413NW-SS-10, and PED-B413NW-D-07 collected from the excavation indicate VOC concentrations below the respective method detection limits for each analyte (see laboratory certificates in Appendix E for respective analyte detection limits). Soil samples PED-B413NW-SS-01, PED-B413NW-SS-02, PED-B413NW-SS-03, and PED-B413NW-SS-05 had individual VOC concentrations ranging from 14.5 micrograms per kilogram (μg/Kg) to 22,000 μg/Kg.

Sidewall soil sample PED-B413NW-SS-01 had total xylenes above the New Jersey Impact to Ground Water Soil Cleanup Criteria of 10 milligrams per kilogram (mg/Kg) for total xylenes. All remaining samples has total xylene concentrations ranging from below the detection limit to $101.5~\mu g/Kg$, which is below the New Jersey criteria for total xylenes.

Soil samples PED-B413NW-SS-01, PED-B413NW-SS-02, PED-B413NW-SS-03, and PED-B413NW-SS-05 had detected VOC concentrations. The only compound detected in PED-B413W-SS-02 and PED-B413NW-SS-05 was methyl tertiary butyl ether (26.0 μ g/Kg and 185 μ g/Kg, respectively). The remaining two samples contained identified and tentatively identified compounds totaling 162,050 μ g/Kg and 979.2 μ g/Kg in PED-B413NW-SS-01 and PED-B413NW-SS-05, respectively (See Table 1). These concentrations are below the most stringent NJDEP Soil Cleanup Criteria of 1,000 mg/Kg per sample for total VOCs in soil.

Concentrations of total lead in the soil samples ranged from 8.7 milligrams per kilogram (mg/Kg) to 121 mg/Kg. These concentrations are below the most stringent NJDEP Soil Cleanup Criteria of 400 mg/Kg for lead.

Soil analytical results are summarized in Table 1. Certificates of analysis and chain-of-custody forms are included as Appendix E. An executed NJDEP Site Inspection Report Checklist is included in Appendix F.

Table 1 Soil Analytical Results

Sample Designation	Date	Depth	Detected	Concentration	Lead	PID
and Location	Sampled	(feet)	VOCs	(μg/Kg)	(mg/Kg)	(ppm)
PED-B413NW-SS-01*	5/12/97	7	Toluene	12,200	11.8	5.0
sidewall-east end			Ethyl Benzene	5,040		}
			o-Xylene	9,460		
			m-Xylene	22,000		
			Naphthalene	4,190		
			n-Propylbenzene	2,500		
			1,2,4-Trimethylbenzene	21,000		
			1,3,5-Trimethylbenzene	5.800		
			TICs	79,860		
	•		Total Detected VOCs	162,050		
PED-B413NW-SS-02	5/12/97	7	Methyl tertiary butyl	26.0	14.0	7.0
south sidewall-east end			ether			
PED-B413NW-SS-03*	5/12/97	7	Methyl tertiary butyl	16.8	23.9	20.0
north sidewall-east end			ether			
			Toluene	14.5		
			o-Xylene	60.1		
			m-Xylene	41.4		
			Naphthalene	51.1		
			1.2.4-Trimethylbenzene	30.2		
			1,3,5-Trimethylbenzene	43.2		
			TICs	721.9		
			Total Detected VOCs	979.2		
PED-B413NW-SS-04	5/12/97	7	ND	NA	15.7	2.0
south sidewall-center						
PED-B413NW-SS-05	5/12/97	7	Methyl tertiary butyl	185	16.7	2.0
north sidewall-center			ether			
PED-B413NW-SS-06	5/12/97	7	ND	NA	15.1	2.0
south sidewall-west end	ļ					
PED-B413NW-SS-07	5/12/97	7	ND	NA	14.5	2.0
north sidewall-west end						
PED-B413NW-D-07	5/12/97	7	ND	NA	8.7	2.0
north sidewall-west end]				i	
PED-B413NW-SS-08	5/12/97	7	ND	NA	14.0	2.0
sidewall-west end						
PED-B413NW-SS-09	5/12/97		ND	NA	15.0	2.0
beneath piping						
PED-B413NW-SS-10	5/12/97		ND	NA	121	2.0
beneath dispenser		j				
h	<u> </u>					

Notes:

VOC Volatile Organic Compound μg/Kg Micrograms per Kilogram mg/Kg Milligrams per Kilogram PID Photionization Detector

ND Not detected at detection limit for each analyte (see Appendix E of respective analyte detection limits).

NA Not Applicable

Tentatively Identified Compounds (TICs) were identified in this sample. See Appendix E for an explanation of TICs.

The stockpiled soil generated during UST removal, along with imported clean fill, was used to backfill the excavation. The soils which came into contact with the interior of the UST during removal were segregated and stockpiled on site for later disposal.

3.0 CONCLUSIONS

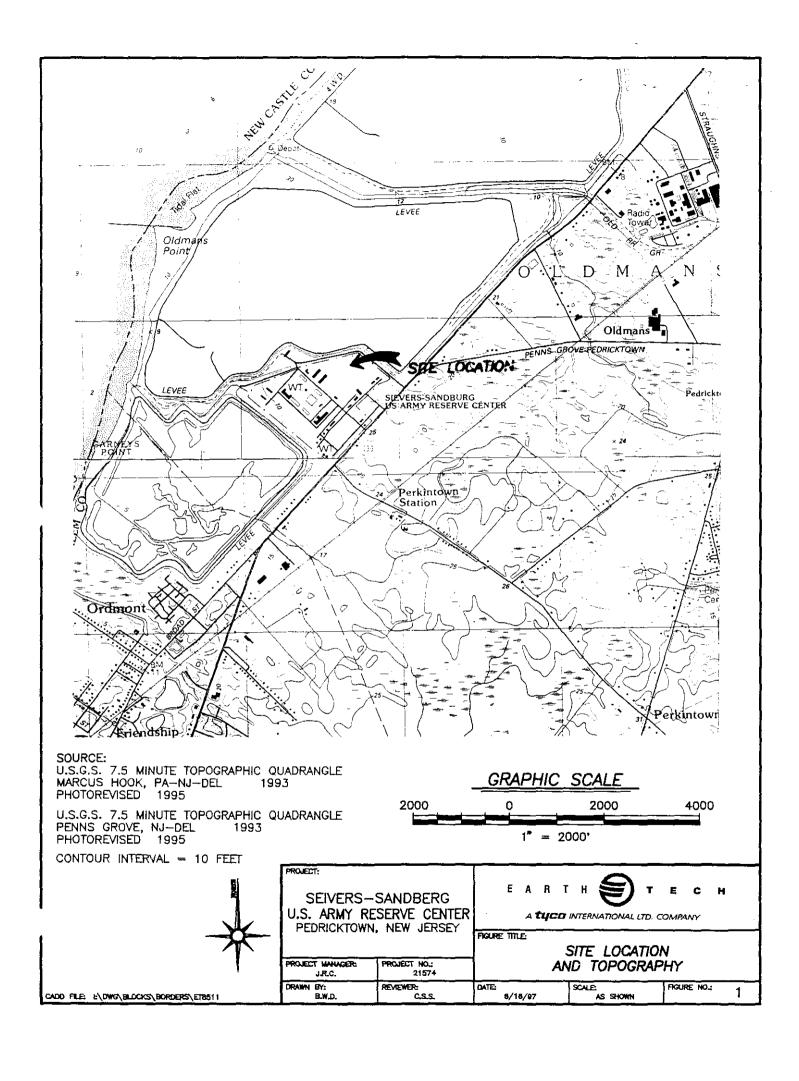
The following is a summary of Earth Tech's site investigation, findings, and tank closure activities for UST No. 413NW at Building No. 413 at Sievers-Sandberg USARC:

- One 11,000-gallon registered UST used to store gasoline for vehicle fueling was removed from the site on May 12, 1997.
- Approximately 50 gallons of product were removed from the tank and transported by Casie Ecology Oil Salvage, Inc. for recycling.
- No holes were observed in the tank other than those made during removal.
- The UST was cleaned, crushed, and transported to the BFI Trancyclery landfill in Philadelphia, Pennsylvania, for disposal.
- No product or stained soils were observed in the tank excavation or along the associated piping trench.
- Groundwater was encountered at approximately 7 feet below grade in the excavation. No sheen was observed on the groundwater.
- PID field screening was performed for excavated soils and soils remaining in the excavation and piping trench. The highest reading was 20 ppm, which is less than the screening level of 100 ppm indicative of contaminated soil.
- Ten confirmatory soil samples were collected from the sidewalls of the UST excavation and from beneath the former piping and dispenser. Six soil samples had VOC concentrations below the respective method detection limits. The remaining four soil samples, detected individual VOC concentrations ranged from 14.5 µg/Kg to 22,000 µg/Kg, and total VOC concentrations ranging from 26.0 µg/Kg to 162,050 µg/Kg. These are below the NJDEP criteria of 1,000 mg/Kg for total VOCs in soil. Lead concentrations ranged from 8.7 mg/Kg to 121 mg/Kg, which are below the NJDEP Cleanup Criteria of 400 mg/Kg for lead in soil.
- One sample had xylene concentrations above the NJDEP Soil Cleanup Criteria. Based on the
 analytical results the contamination appears to be localized in the vicinity of the eastern end of the
 tank. The other nine xylene concentrations from the sidewall samples were below the cleanup
 criteria.

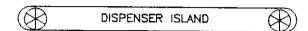
Based on the site investigation results, Earth Tech recommends no further action relative to the former UST.

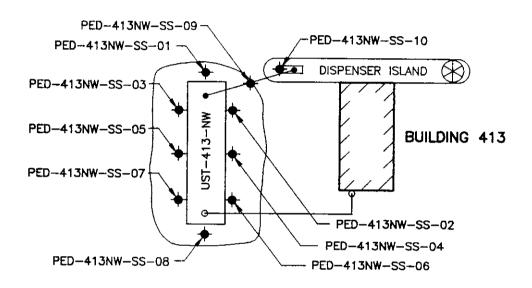
Appendix A

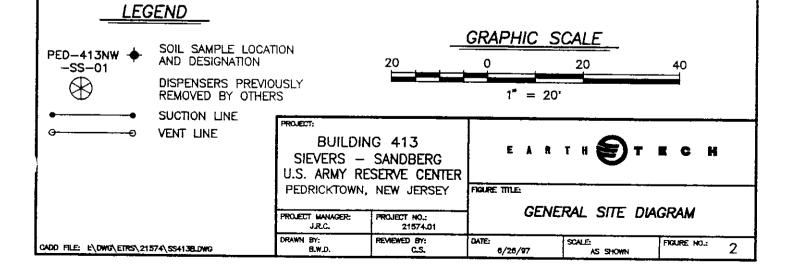
Figures











Appendix B

NJDEP UST Closure Approval

5

UNDERGROUND STORAGE TANK SYSTEM CLOSURE APPROVAL

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION BUREAU OF FIELD OPERATIONS CN-028, TRENTON, NJ 08625-0028

TMS #

UST#

C97-0177

0071994

SIEVERS-SANDBERG U.S. ARMY RESERVE CENTER BLDG 273, ROUTE 130 PEDRICKTOWN

SALEM

THE ABOVE LISTED FACILITY IS HEREBY GRANTED APPROVAL TO PERFORM THE FOLLOWING ACTIVITY IN ACCORDANCE WITH N.J.A.C. 7:14b-1 et. seq:

REMOVAL OF:

PLEASE SEE ATTACHED TABLE

SITE ASSESSMENT: Conduct a site investigation for the UST(s) and appurtenant piping specified in this approval in accordance with the Technical Requirements for Site Remediation, NJ.A.C. 7:26E.

The management of any excavated soils must follow the requirements listed in the Attachment enclosed within.

Note: The UNDERGROUND STORAGE TANK SERVICES CERTIFICATION ACT, NJS.A. 58:10A-24, requires all services performed on an UST system for the purpose of complying with P.L.1986, e.102 to be performed by or under the immediate on-site supervision of a person certified by the Department for that service. The certified person providing that service must be employed by a buisness that is also certified by the Department for that service.

CONTACT PERSON:

TELEPHONE:

JANIS CROWDER

804-358-5400

EFFECTIVE DATE:

04/03/97

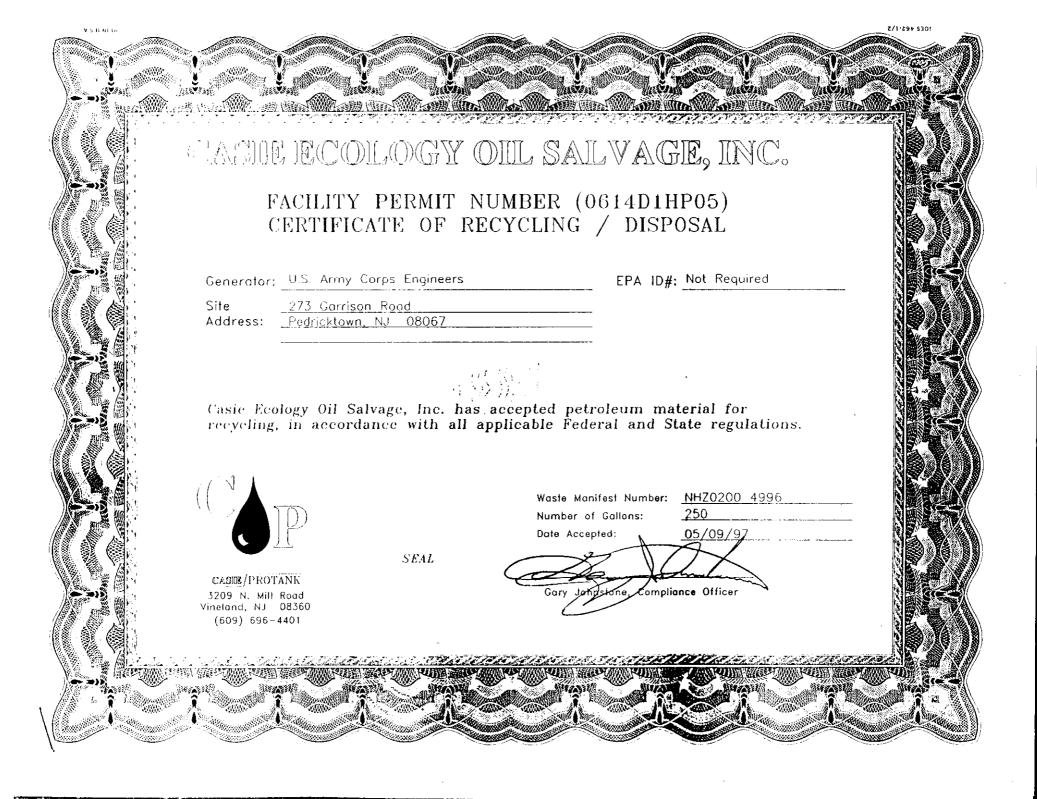
THIS FORM MUST BE DISPLAYED AT THE SITE DURING THE APPROVED ACTIVITY AND MUST BE MADE AVAILABLE FOR INSPECTIONS AT ALL TIMES.

Joshua Gradwohl, SUPERVISOR BUREAU OF FIELD OPERATIONS

(ton)

		-,.						
- .		Assumed				1		
Tank :		Tank Length			Petroleum-Contaminated		1	
dentification	(gallons)	(feet)	Contents	Excavation Sample IDs	Stockpile Sample IDs	Analysis	Method	Tumaround Time
443584	44000	25	unleaded	PED-413NW-S\$-01 through	000 4004 00 04			10.1
413NW	14,000	25	gasoline	PED-413NW-SS-07	PED-413NW-SP-01	VC+10*	9260	10 days
442014	40.000	4.7		PED-413SW-SS-01 through	DED 443514 0D 04			
413SW	10 000	17	diesel	PED-413NW-SS-06	PED-413SW-SP-01	ITPHC **	418 1	10 days
44314	4 000	40		PED-413W-SS-01 through	DED 44514/ 6D 64			
413W	1,000	10	waste oil unleaded	PED-413W-SS-04 PED-413NE-SS-01 through	PED-413W-SP-01	TPHC***	418.1	10 days
413NE	5.000	24			DED 412NE SE 01	VO.40*		10 days
413145	3.000	24	gasoline unleaded	PED-413NE-SS-07 PED-413E-SS-01 through	:PED-413NE-SP-01	VC+10*	8260	10 days
413E	5.000	24 -	gasoline	PED-413E-SS-07	PED-413E-SP-01	VO+10*	8260	10 days
4130	3,000		unleaded	PED-413SE-SS-01 through	FED-413E-3F-01	VO+10	0200	i lu days
413SE	5.000	24	gasoline	PED-413SE-SS-07	PED-413SE-SP-01	VO+10*	8260	10 days
41336	3.000		unleaded	PED-404 1-SS-01 through	FED-4133E-3F-01	VO+10	. 8260	
404-1	550	6		PED-404 1-SS-03	PED-404 1-SP-01	! VO+10*	[!] 8260	10 days
	330		gasonne	PED-282.1-SS-01 through	120-0-7-01-01		: 0200	10 00/0
282-1	1.000	10	heating oil	PED-282.1-SS-04	PED-282.1-SP-01	TPHC **	418 1	10 days
		<u></u>		PED-283 1-SS-01 through		!		
283-1	1.500	9	beating oil	PED-283 1-SS-04	PED-283.1-SP-01	TPHC **	418.1	10 days
2,00-1			rieating th	PED-272.1-SS-01 through	F 20-203: - 3F -01	i i i i i i i i i i i i i i i i i i i	. 410.:	10 02/3
272-1	1,000	10			DED 370 + 60 64	TPHC **	418 1	10 days
212-1	7.500		neating oil	PED-272.1-SS-04	PED-272.1-SP-01	: IFMC	410	10 days
275.0	4.000	4.0		PED-272.2-SS-01 through	DED 370 0 00 01	T0::0 ==	440.4	10.45
272-2	1,000	10	neating oil	PED-272 2-SS-04	PED-272.2-SP-01	TPHC **	418 1	10 days
272.0				PED-272.3-SS-01 through	050 570 0 00 01			40.4
272-3	1 000	10	neating oil	PED-272 3-SS-04	PED-272.3-SP-01	TPHC **	418 1	10 days
,				PED-190 1-SS-01 through		1	:	1
190-1	1 000	10	diesel	PED-190 1-5S-04	PED-190 1-SP-01	TPHC **	418 1	10 days
	:			PED-220W-SS-01 through	•	!	:	;
220W	1,000	10	heating oil	PED-220W-SS-04	PED-220W-SP-01	TPHC **	418.1	10 days
				PED-220SW-SS-01 through		L		
220SW	1,000	10	heating oil	PED-220SW-SS-04	PED-220SW-SP-01	TPHC **	418.1	10 days
		_		PED-233,1-SS-01 through			1	
233-1	1,000	10	diesel	PED-233 1-SS-04	PED-233 1-SP-01	TPHC **	418.1	10 days
		i		PED-235 1-SS-01 through	<u></u>			1
235-1	1.000	10	heating oil	PED-235 1-SS-04	PED-235 1-SP-01	TPHC **	418.1	10 days
		!		PED-235 2-SS-01 through	<u> </u>			
235-2	1 000	10	heating oil	PED-235.2-SS-04	PED-235 2-SP-01	TPHC **	418 1	10 days
				PED-225.1-SS-01 through				1
225-1	1,000	10		PED-225 1-SS-04	PED-225 1-SP-01	TPHC ==	418 1	10 days
220.4	575	_		PED-229 1-SS-01 through	DED 200 4 2D 24	1	2222	
229-1	275	5	gasoline	PED-229 1-SS-03	PED-229 1-SP-01	.VO+10*	8260	10 days
270.4	276	-		PED-270 1-SS-01 through	DED 070 4 00 04		1404	40
270-1	275	5	neating oil	PED-270 1-SS-03 PED-425 1-SS-01 through	PED-270 1-SP-01	TPHC **	418 1	10 days
426-1	1,000	10	hosting oil	PED-426 1-SS-04	PED-425 1-SP-01	TPHC **	418.1	10 days
420-1	1.000		neating on	PED-268 1-55-01 through	FED-425 1-3F-01	1550	1 410.1	TO Gays
468 1	275	5	heating oil	PED-268 1-SS-03	PED-268 1-SP-01	TPHC **	418.1	10 days
						i		
Analyze sam	ple for lead	f UST formed	v contained	leaded gasoline				1
		10 if TPHC >						 .
				PP-metals if TPHC is detected	d in the sample.	†		
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-						÷	•	
O+10 - volati	le organic co	ompounds ali	ıs 10 peaks	including xvienes, target comp	ound list or priority pollutant \	O with library sear	ch: EPA Method 8	3260
		drocarbons, E				1	!	i
				by target compound list or pro-	onty pollutant list with library se	earch: EPA Method	8270	
		enyls: EPA N				1	T	1
P-metals - pr						T	1	
		•				•••••••••••		i
	For each tan	nk, collect two	soil sample	s from the pottom of the sidew	ails of the excavation, and one	e soil sample		:
				f the excavation	1	· · · · · · · · · · · · · · · · · · ·		
						T	:	1

Appendix C Liquid Disposal Manifest



ENVIRONMENTAL SERVICES

Please type or print in block letters. (Form designed for use on eilte £12-pitch) typewriter.)

	NON-HAZARDOUS 1.0	Generator's US EPA ID No. N E R E O U I R E D 0 1	ument No.	2. Pag	ge 1		<u></u>	•
1	3. Generator's Name and Mailing Address U.S. A	NEREQUIREDOI	8 2 6		on-hazardo	us Manifest	Document N	Jumbar
1	U.S. A	irmy corps of Engineers				4998		AUI IIDEI
:		rrison Road			ate Generate		<u> </u>	
	4 Generator's Phone (609) 299-2879	ktown NJ 08067		"		J. 3 10		
	5. Transporter 1 Company Name	6. US EPA ID Numb	er	1	SAME			
	Casie Ecology Oil Salvage, Inc	hr ir in io ta le la la le	وا واعا	C. Si	ate gan , I[, ,	012 613	: 11: -7
7	7. Transporter 2 Company Name	N J D 0 14 5 9 9 5 8. US EPA ID Numbi	er er				9) 696~4	17:7
			1 1 1	E. St	ate Trans ID	(60	7/ 070~4	401
	Designated Facility Name and Site Address	10. US EPA ID Numb	er					1_1_
	Casie Ecology Oil Salvage, Inc			F. Tra	nsporter's P	hone ()	
	3209 N. MIll Rd / Casie P			G St	ate Facility's	1 ¹² D1HP0	<u></u>	
	Vineland NJ 08360	N J D 10 4 15 19 19 15	6 9 12	H. Fa	cility's Phon	ekengi ekengi	696-4401	
Ì	11. US DOT Description (Including Proper Shipping N		12. Cont	ainers	; 13.	i 14.	i .	
İ		varne, mazaro Ciass, and 10 Number)	No.	Туре	Total Quantit		18/05/5	No.
G	a. Flammable liquids, n.o.s	. (Gasoline)	ļ				 	-
E	2 11111002 00777	, , , , , , , , , , , , , , , , , , , ,			002	50		
E			0 0 1	T T	_	0 1 G	I D 7	2
R	b.			 				 -
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0			111		1 1 1	1	i	j
Ü	C.							
			1 1 1		1111			1
l ;	d.							•
							i	
1				لللا				
	J. Additional Descriptions for Materials Listed Above) (K. Ha	indling Code	is for Wastes	Listed Above	
	L,T,I %oil/sed. %wtr.							
	a	С		a.		С.		
						i		
1	Special Handling Instructions and Additional Infor.	i d.		5		₫.		_
	To opoda handing instructions and Additional Infor-	manon						
1								
i	- 24 Hr. F B #6	00 505 4401 7 3-1	*** 556					
	a. 24 Hr. Energency Response \$6 16. GENERATOR'S CERTIFICATION: I hereby declare	that the contents of this consignment are fi	NAERO	iratabi	described at	ova by		
	proper snipping name and are classified, packed, r	marked, and labeled, and are in all respects in	proper cor	idition f	or transport	by highway		
	according to applicable international and national I hereby certify that the above-named material is not		24 and	270	!:			
	, and the control of	tiazardous waste as defined by 40 CFR Fait 20	71, 204 and	2/9 OF A	пу аррисавів	state law.		
						٠,		
l	Printed/Typed Name	Signature	7		\leftarrow		Month Day	Year
	K IND MOTHERSHEAD	V OFFIC			\sim		10151019	
7-6	17. Transporter 1 Acknowledgement of Receipt of Mat	erials					<u> </u>	
R	Printed/Typed Name	Signature	01				Month Day	Year
ANSP	Del-Arnold	Del Cun	الكركاب				1051019	1917
ORY	18. Transporter 2 Acknowledgement of Receipt of Mat	enals					<u> </u>	1
Ť	Printed/Typed Name	Signature			-		Month Day	Year
Ā						1		11
	19. Discrepancy Indication Space							
F								
								-
-	20 5							
4 + 1	20. Facility Owner or Operator: Certification of receipt of r		st except as	noted in	1 Item 19.			
	Printed/Typed Name	Signature					Month Day	Year
نـــا	<u> </u>							1 1

Appendix D

Tank Disposal Certificate

Jun-20-97 10:51A

Environmental Technology Incorporated Certification of Tank Disposal
Certification of Tank Disposal
(for expendence with American Province Province represented province
US ARMY COE 5/15/97
SIEVERS - SANDRERG ARMY RISERVE
Since we what the table to be dispersed for front dispersed
Tank Description
The Frank Standard on Contract
11000 FIBERCIASS GOOD
GAS
NONE
Cleaning Certification
This is to certify that the above described tank has been elegand in accordance with AFI methods and
presidence and has been rendered mitable for disposal as scrap. All product residence were removed and the interior of the tank was tested and found to be free of harmful supers.
9.16
Environmental Technology Incorporated
Transportation
This is to vertify that the above described tank has been received and will be trunsported to the disposal pits as specified above.
Separal Manage / 1 / State of Manage / Date
SUPERIOR SANITATION SERVICES, INC. 5/15/97
SUPERIOR SANITATION SERVICES, INC. 5/15/97 Received for Dispusal
Superior Sup
Superior SANITATION SERVICES, INC. 5/15/97 Received for Disposal This is goordfy that the short described took has been resolved for disposal and will be disposal
Superior Sup
Superior Sanitation Services, Inc. 5/15/97 Superior Sanitation Services, Inc. 5/15/97 Received for Disposal This is a service that the described for the boson received for disposal and will be disposed of in proposal and will be disposed.
SUPERIOR SANITATION SERVICES, INC. 5/15/97 Received for Disposed The Land of the Sanitation and will be disposed of the Sanitation an
Superior Sanitation Services, Inc. 5/15/97 Received for Disposal This is provedly that the described for the bear resolved for disposal and will be disposed of in the providence of the provi
Superior Sanitation Services, Inc. 5/15/97 Received for Disposed This is a smallest the disposed for disposed and will be disposed of the State of

Appendix E

Laboratory Certificates and Chain-of-Custody

TOXIKON CORP. Page 1 REPORT ~ Work Order # 97-05-197 Received: 05/13/97 05/20/97 15:56:03 REPORT EARTH TECH REMEDIATION PREPARED TOXIKON CORPORATION TO 2229 TOMLYNN ST. BY 15 WIGGINS AVE RICHMOND, VA. 23230 BEDFORD, MA 01730 804-358-5400 FAX: 358-6868 CERTIFIED BY ATTEN JANIS CROWDER ATTEN PAUL LEZBERG PHONE (617)275-3330 CONTACT CHUCKE CLIENT EARTHTECH VA SAMPLES 18 MA CERT # M-MA064: TRACE METALS, SULFATE, CYANIDE, RES. FREE COMPANY EARTH TECH REMEDIATION FACILITY 2229 TOMLYNN ST. CHLORINE, Ca, TOTAL ALK., TDS, pH, THMs, VOC, PEST., NUTRIENTS. RICHMOND, VA. 23230 DEMAND. O&G, PHENOLICS, PCBs . CT DHS #PH-0563, NY #10778 FL HRS E87143, NJ DEP 59538, NC DNR286, SC 88002, NH 204091-C. WORK ID PEDRICKTOWN, NJ TAKEN 5/12/97 VERIFIED BY: TRANS CERT # M-MAO64 TYPE SOIL P.O. # 21574 INVOICE under separate cover SAMPLE IDENTIFICATION TEST CODES and NAMES used on this workorder 01 PED-B229-SS-01 8260 PURGEABLE ORGANICS VOA 02 PED-8229-SS-02 MEX TS METALS, TOTAL EXT., SOIL 03 PED-B229-SS-03 PB LEAD 04 PED-8413NW-SS-01 TICV T.I.C. Volatiles 05 PED-B413NW-SS-02 06 PWD-8413NW-SS-03 07 PED-B413NW-SS-04 08 PED-B413NW-SS-05 09 PED-B413NW-SS-06 10 PED-B413NW-SS-07 11 PED-B413NW-SS-08 12 PED-B413NW-D-07 13 PED-B404-1-SS-01 14 PED-B404-1-SS-02 15 PED-8404-1-55-03 16 PED-B413NW-SS-09

17 PED-B413NW-SS-10 18 TRIP BLANK

TOXIKON CORP.

REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

Page 12 TOXIKON CORP. REPORT Work Order # 97-05-197
Received: 05/13/97 Results by Sample

Results by Sample

SAMPLE ID PED-8413NN-SS-01 FRACTION 04A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected <u>05/12/97 16:15:00</u> Category <u>SOIL</u>

EPA 8260 PURGEABLE ORGANICS

	RESULT LIMIT		RESULT L	IMIT
Chloromethane	<u>ND 2500</u>	o-Xylene	9460	1300
Bromomethane	ND 1300	m-Xylene	22000	1300
Vinyl Chloride	<u>ND</u> 500	p-Xylene	ND	1300
Chloroethane	ND 2500	1,2-Dichlorobenzene	ND	1300
Methylene Chloride	ND 2500	1,3-Dichtorobenzene	ND	1300
1,1-Dichloroethene	ND 1300	1,4-Dichlorobenzene	ND	1300
Trichlorofluoromethane	ND 2500	Naphthalene	4190	2500
1,1-Dichloroethane	ND 1300	n-Propylbenzene	2500	2500
Trans-1,2-Dichloroethene	ND 1300	Bromobenzene	ND	1300
Chloroform	ND _1300	Bromchloromethane	ND	1300
1,2-Dichloroethane	ND 1300	n-Butylbenzene	ND	2500
1,1,1-Trichloroethane	ND 1300	sec-Butylbenzene		2500
Carbon Tetrachloride	<u>ND 1300</u>	tert-Butylbenzene	ND	2500
Bromodichloromethane	ND 1300	2-Chlorotoluene	ND	1300
1,2-Dichloropropane	ND 1300	4-Chlorotoluene		1300
Trichloroethene	ND 1300	1,2-Dibromo-3-chloropropane		1300
Dibromochloromethane	<u>ND</u> 1300	1,2-Dibromomethane	ND	1300
1,1,2-Trichloroethane	ND 1300	Dibromomethane	ND	1300
Benzene	ND _1300	Dichlorodifluoromethane	ND	2500
1,1-Dichloropropene	ND _1300	cis-1,2-Dichloroethene	ND.	1300
2-2-Dichtorpropane	ND 1300	1,3-Dichloropropane	ND	1300
Bromoform	ND _1300	1,1,1,2-Tetrachloroethane	ND	1300
Hexachlorobutadiene	ND 2500	1,2,3-Trichlorobenzene		1300
Isopropylbenzene	ND 2500	1,1,2,2-Tetrachloroethane		1300
Tetrachloroethene	ND 1300	1,2,4-Trichlorobenzene	ND	1300
Methyl tertiary butyl ether	ND 1300	1,2,3-Trichloropropane	ND	1300
Toluene	12200 1300	1,2,4-Trimethylbenzene	21000	2500
Chlorobenzene	ND _1300	1,3,5-Trimethylbenzene		2500
Ethyl Benzene	5040 _1300	cis-1,3-Dichloropropene		1300
p-Isopropyitoluene	<u>ND 2500</u>	trans-1,3-Dichloropropene		1300
		Styrene		1300

DATE RUN	05/19/97		
NALYST	<u>CMD</u>		
NSTRUMENT		G	
IL. FACTOR	<u>250</u>		
NITS	ug/Kg		
OMMENTS			

TOXIKON CORP.

REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SUMMARY OF NBS (38,700+ analyte version, April '82)

SAMPLE ID PED-8413NW-SS-01

1903

1909

1924

2013

2064

FRACTION <u>O4A</u> TEST CODE <u>TICV</u> NAME <u>T.I.C. Volatiles</u>

Date & Time Collected 05/12/97 16:15:00

Category **SOIL**

	LIBRARY SEARCH RESULTS O CONCENTRATION OF TEN	TATIVE	LY I	DEN)
	VOLATI			.5					
SCAN	NAME OF	MF	ASS	ESS	MEN	Т	EST.		
NUM.	COMPOUND	PUR	R\$	IS	0	UK	CONC.	CAS	RT
				(1)		(2)	#	(3)
941	2,3,4-trimethylpentan	-	_	_	_	_	2610	00565753	-
1381	UNKNOW		_	-	X	_	<u> 2960</u>	*	
1553	UNKNOW		_	_	X		2900	*	<u>15.5</u> 6
<u> 1615</u>	Ethylmethylbenzene Isome	94	_	X	_	_	19500	**	16.12
1671	Ethylmethylbenzene Isome	94	_	X	_		4480	**	16.62
<u> 1788</u>	Trimethylbenzene Isome	97	_	X	_	<u></u>	6630	**	17.68
1825	Indan	93	_	_	_		3200	00496117	18.01
1836	Methylpropylbenzene Isame	86	_	<u>x</u>	_		5390	**	18.11
1850	Ethyldimethylbenzene Isome	94	_	X	_	_	7830	**	18.23

Notes and Definitions for this Report:

<u>_</u> <u>X</u>

_ <u>X</u>

- <u>X</u>

3200

2530

6130

3660

3400

5440

** <u>18.71</u>

** 18.77

18.90

19.70

20.16

20.44

**

**

02039896

 UNITS.
 uq/Kq

 DATE.
 05/19/97

SPECTROSCOPIST... CMD

Comments:

2095 2-Ethenyl-1,4-dimethylbenzene 92

Ethyldimethylbenzene Isomer 95

Tetramethylbenzene Isomer 91

Ethyldimethylbenzene Isomer 96

Ethyldimethylbenzene Isomer 94 X

C10H12 UNKNOWN 96

 * (<u>INKNOWNS</u>
 **	ISOMERS

⁽¹⁾ RS - Reasonable Identification \star

ISO- Isomer or similar compound

UK - Unknown, not in NBS Library

⁽²⁾ Calculated vs nearest eluting internal standard as a simple ratio / proportion.

⁽³⁾ RT vs 1,4-dichlorobutane for volatiles.

^{*} This shall mean the assessment of the library search by an experienced mass spec. interpretation specialist which would by his/her concurrence be a good identification using WA85-J664, J680, Task V on page A-3 & Task III pg 2-3

TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-8413NW-SS-02	SAMPLE # <u>05</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/12/97 16:17:00</u> Category <u>SOIL</u>
PB 14.0	
mg/Kg DL=2.69	•

Page 15 TOXIKON CORP. - REPORT Work Order # 97-05-197
Received: 05/13/97 Results by Sample

SAMPLE ID PED-8413NU-SS-02 FRACTION 05A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected 05/12/97 16:17:00 Category SOIL

EPA 8260 PURGEABLE ORGANICS

	RESULT LIM	IT		RESULT I	LIMIT
Chloromethane	ND	10	o-Xylene	ND	5.0
Bromomethane	ND	<u>5.0</u>	m-Xylene	ND	5.0
Vinyl Chloride	ND	2.0	p-Xylene	ND	5.0
Chloroethane	ND	10	1,2-Dichlorobenzene	ND	5.0
Methylene Chlaride	ND	10	1,3-Dichlorobenzene	ND	5.0
1,1-Dichloroethene	ND	<u>5.0</u>	1,4-Dichlorobenzene	ND	_5.0
Trichlorofluoromethane	ND	10	Naphthalene	ND	10
1,1-Dichloroethane	ND	5.0	n-Propylbenzene	ND	10
Trans-1,2-Dichloroethene	ND	<u>5.0</u>	Bromobenzene	ND	5.0
Chloroform	ND	5.0	Bromchloromethane	ND	5.0
1,2-Dichloroethane	ND	<u>5.0</u>	n-Butylbenzene	ND	10
1,1,1-Trichloroethane	ND	5.0	sec-Butylbenzene	ND	10
Carbon Tetrachloride	ND	<u>5.0</u>	tert-Butylbenzene	ND.	10
Bromodichloromethane	ND!	<u>5.0</u>	2-Chiorotalu ene	<u> </u>	5.0
1,2-Dichloropropane	ND	<u>5.0</u>	4-Chiorotaluene	ND	5.0
Trichloroethene	ND	<u>5.0</u>	1,2-Dibromo-3-chloropropane	ND	5.0
Dibromochloromethane	ND	<u>5.0</u>	1,2-Dibromomethane	ND	5.0
1,1,2-Trichloroethane	ND .	5.0	Dibromomethane	ND	5.0
Benzene	ND 5	<u>5.0</u>	Dichlorodifluoromethane	ND	10
1,1-Dichloropropene	ND 5	<u>5.0</u>	cis-1,2-Dichloroethene	ND	5.0
2-2-Dichlorpropane	ND :	<u>5.0</u>	1,3-Dichloropropane	ND	5.0
Bromoform	ND S	<u>5.0</u>	1,1,1,2-Tetrachloroethane	ND	5.0
Hexachlorobutadiene	ND	10	1,2,3-Trichlorobenzene	ND	5.0
Isopropylbenzene	ND	10	1,1,2,2-Tetrachloroethane	<u> </u>	5.0
Tetrachloroethene	ND	<u>5.0</u>	1,2,4-Trichlorobenzene	ND	5.0
Methyl tertiary butyl ether	26.09	<u>5.0</u>	1,2,3-Trichloropropane	ND	5.0
Toluene	ND	<u>5.0</u>	1,2,4-Trimethylbenzene	ND	10
Chlorobenzene	ND	<u>5.0</u>	1,3,5-Trimethylbenzene	ND	10
Ethyl Benzene	ND 5	<u>5.0</u>	cis-1,3-Dichloropropene	ND	5.0
p-Isopropyltoluene	ND	10	trans-1,3-0ichloropropene	ND	5.0
			Styrene	ND	5.0

DATE RUN	05/15/97
ANALYST	CMD
INSTRUMENT	G
DIL. FACTOR	R1
UNITS	<u>ug/Kg</u>
COMMENTS	

TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-8413NW-SS-02 FRACTION 05A TEST CODE TICY NAME T.I.C. Volatiles Date & Time Collected <u>05/12/97 16:17:00</u> Category <u>SOIL</u>

CAN NAME OF			ASS	ESSMENT			
ium. compound				(1)	(2)		(3)
·				<u> </u>			
		_	- -				
			- -	 			
		_	- -	 			-
			- -			<u></u>	
			- -	-			
		_	<u> </u>	- - -			
		_	- -				<u> </u>
	Notes and Definit				ort:		
	UNITS			_			
	DATE SPECTROSCOPIST			ſ			
	Comments:			PEAKS DET	TECTED		
	(1) RS - Reasonab						
	ISO- Isomer o UK - Unknown,						
	(2) Calculated vs				•	standa	rd
	as a simple ratio	/ pr	opor	tion.			

TOXIKON CORP.

REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PND-8413NN-SS-03	_	FRACTIONS: A Collected 05/12/97	 Category	SOIL
PB			,	

REPORT --- Work Order # 97-05-197

Page 18 TOXIKON CORP.
Received: 05/13/97

Results by Sample

SAMPLE ID PUD-8413NU-SS-03 FRACTION 06A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected <u>05/12/97 16:20:00</u> Category <u>SOIL</u>

EPA 8260 PURGEABLE ORGANICS

	RESULT L	.IMIT		RESULT L	.IMIT
Chloromethane	ND	10	o-Xylene	60.1	5.0
Bromomethane	ND	<u>5.0</u>	m-Xylene	41.4	5.0
Vinyl Chloride	ND	2.0	p-Xylene	ND	5.0
Chloroethane	N0	10	1,2-Dichlorobenzene	ND	5.0
Methylene Chloride	ND	10	1,3-Dichlorobenzene	ND	5.0
1,1-Dichlaroethene	ND	5.0	1,4-Dichtorobenzene	ND	5.0
Trichlorofluoromethane	ND	10	Naphthalene	51.1	10
1,1-Dichloroethane	ND	5.0	n-Propylbenzene		10
Trans-1,2-Dichloroethene	ND	5.0	Bromobenzene	ND	
Chloroform	. ND	5.0	Bromchloromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	n-Butylbenzene	ND.	10
1,1,1-Trichloroethane	<u>ND</u>	5.0	sec-Butylbenzene	ND.	10
Carbon Tetrachloride	ND	5.0	tert-Butylbenzene	ND	10
Bromodichloromethane	ND	<u> 5.0</u>	2-Chlorotoluene	ND	5.0
1,2-Dichtoropropane	ND	5.0	4-Chlorotoluene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dibromo-3-chloropropane	NĐ	5.0
Dibromochloromethane	ND	5.0	1,2-Dibromomethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0	Dibromomethane	ND	5.0
Benzene	ND.	5.0	Dichlorodifluoromethane	ND	10
1,1-Dichlaropropene	ND	5.0	cis-1,2-Dichloraethene	ND	5.0
2-2-Dichlorpropane	ND	5.0	1,3-Dichloropropane	ND	5.0
Bromoform	ND	5.0	1,1,1,2-Tetrachloroethane	ND	5.0
Hexachlorobutadiene	ND	10	1,2,3-Trichlarobenzene	ND	5.0
Isopropylbenzene	ND	10	1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0	1,2,4-Trichlorobenzene	ND	5.0
Methyl tertiary butyl ether	16.8	5.0	1,2,3-Trichloropropane	ND	5.0
Totuene	14.5	5.0	1,2,4-Trimethylbenzene	30.2	10
Chlorobenzene	ND	5.0	1,3,5-Trimethylbenzene	43.2	10
Ethyl Benzene	ND	5.0	cis-1,3-Dichloropropene	ND.	5.0
p-Isopropyltoluene	ND	10	trans-1,3-0ichloropropene	ND	5.0
			Styrene	ND	5.0

ANALYST	<u>CMD</u>		
INSTRUMENT		G	
DIL. FACTOR	1		
UNITS	<u>uq/Kq</u>		
COMMENTS		·	

Page 19 TOXIKON CORP. REPORT - Work Order # 97-05-197
Received: 05/13/97 Results by Sample

Results by Sample

SAMPLE ID PWD-B413NU-SS-03 FRACTION O6A TEST CODE TICV NAME T.I.C. Volatiles Date & Time Collected 05/12/97 16:20:00 Category SOIL

	VOLATII	E ORG	ANIC	:s				
	NAME OF	MF		ESSME		EST.		
IUM. (COMPOUND	PUR	RS	ISO (1)	UK	CONC.		RT (3)
332	2-Methylpentane	90	_			27.3	00107835	4.52
673	2,3-Dimethylpentane	87	_				00565593	
737	2,2,4-Trimethylpentane	78	_				00540841	
748	UNKNOWN	58	_	_ X		<u>46.1</u>	*	8.27
<u> 1623</u>	Ethylmethylbenzene Isomer	94	_	<u>x</u> _	_	71.5	**	16.15
<u> 1678</u>	Ethylmethylbenzene Isomer	94	_	<u>x</u> _		<u>36.6</u>	**	<u>16.65</u>
<u> 1795</u>	Trimethylbenzene Isomer	94	_	<u>x</u> _		60.2	**	<u>17.7</u>
<u> 1832</u>	Indane	_	_			26.4	00496117	18.04
<u>1843</u>	1-Methyl-3-propylbenzene		-			<u>43.8</u>	01074437	<u>18.13</u>
1857	ethyldimethylbenzene Isomer		-	<u>x</u> _	-	<u>58.5</u>		<u>18.26</u>
1931	C10H14_UNKNOWN		-	- <u>x</u>		53.4		<u>18.93</u>
1949	C10H12_UNKNOWN		-	_ <u>X</u>		28.8		
2020	Tetramethylbenzene Isomer		-	<u>x</u> –		37.8		
<u>2071</u> 2102	2,3-Dihydro-1-methylindene (2-methyl-1-propenyl)benzene		-	- -	_		27133933	
			_	<u>-</u> -	· 	66.5	00768490	20.47
	Notes and Definit				Repo	rt:		
	DATE			_				
	SPECTROSCOPIST	-	•, ,					
	Comments:							
	<u></u>			*	UNK	YOWNS		
						OMERS		
	(1) RS - Reasonab	le Ide	nti	ficat	ior :			
	ISO- Isomer o							
	UK - Unknown,					,		
	(2) Calculated vs				-		. standard	
	as a simple ratio				-	-		
	(3) RT vs 1,4-did				r vai	atiles	i.	
	* This shall mean	the a	sses	smen	t of	the li	brary sea	rch
	by an experienced	mass	spec	. int	terpr	etatio	n special	ist

- TOXIKON CORP.

REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-B413NN-SS-04	SAMPLE # 07 FRACTIONS: A
	Date & Time Collected <u>05/12/97 16:23:00</u> Category <u>SOIL</u>
 PB <u>15.7</u>	
mg/Kg DL=2.69	

SAMPLE ID PED-B413NU-SS-04 FRACTION 07A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA

Date & Time Collected <u>05/12/97 16:23:00</u> Category <u>SOIL</u>

EPA 8260 PURGEABLE ORGANICS

	RESULT LIMIT		RESULT LIMIT
Chloromethane	ND10	o-Xylene	ND 5.0
Bromomethane	ND5.0] m-Xylene	ND 5.0
Vinyl Chloride	ND _2.0) p-Xylene	ND 5.0
Chioroethane	<u>ND</u> 10	1,2-Dichlorobenzene	ND 5.0
Methylene Chloride	ND 10	1,3-Dichlorobenzene	ND5.0
1,1-Dichlaroethene	<u>ND 5.0</u>	1,4-Dichlorobenzene	ND 5.0
Trichlorofluoromethane	ND10	Naphthalene	ND 10
1,1-Dichloroethane	<u>ND</u> 5.0	n-Propylbenzene	ND 10
Trans-1,2-Dichloroethene	ND _ 5.0	Bromobenzene	ND 5.0
Chloroform	ND5.0	Bromchloromethane	ND 5.0
1,2-Dichloroethane	<u>ND</u> 5.0	n-Butylbenzene	<u>ND</u> 10
1,1,1-Trichloroethane	ND	sec-Butylbenzene	ND 10
Carbon Tetrachloride	ND5.0	tert-Butylbenzene	ND 10
Bromodichloromethane	<u>ND</u> 5.0	2-Chiorotoluene	ND 5.0
1,2-Dichloropropane	<u>ND</u> 5.0	4-Chiorotoluene	ND 5.0
Trichloroethene	<u>ND</u>	1,2-Dibromo-3-chloropropane	ND 5.0
Dibromochloromethane	ND5.0	1,2-Dibromomethane	ND 5.0
1,1,2-Trichloroethane	<u>ND</u> 5.0	Dibromomethane	ND 5.0
Benzene	ND5.0	Dichlorodifluoromethane	ND 10
1,1-Dichlaropropene	ND5,0	cis-1,2-Dichloroethene	ND 5.0
2-2-Dichlorpropane	<u>ND</u> 5.0	1,3-Dichloropropane	ND 5.0
Bromoform	ND5.0	1,1,1,2-Tetrachloroethane	ND 5.0
Hexachlorobutadiene	ND10	1,2,3-Trichtorobenzene	ND _5.0
Isopropylbenzene	<u>ND</u> 10	1,1,2,2-Tetrachloroethane	<u>ND 5.0</u>
Tetrachloroethene	<u>ND 5.0</u>	1,2,4-Trichlorobenzene	ND 5.0
Methyl tertiary butyl ether	<u>ND</u> 5.0	1,2,3-TrichLoropropane	ND 5.0
Toluene	ND 5.0	1,2,4-Trimethylbenzene	ND10
Chlorobenzene	<u>ND 5.0</u>	1,3,5-Trimethylbenzene	ND 10
Ethyl Benzene	<u>ND</u> 5.0	cis-1,3-Dichloropropene	ND 5.0
p-Isopropyltoluene	N010	trans-1,3-Dichloropropene	ND 5.0
		Styrene	ND 5.0

DATE RUN	05/15/97
INALYST	CMD
INSTRUMENT	<u>G</u>
DIL. FACTOR	1
UNITS	ug/Kg
COMMENTS	

TOXIKON CORP.

REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-B413NW-SS-04 FRACTION 07A TEST CODE TICV NAME T.I.C. Volatiles Date & Time Collected 05/12/97 16:23:00 Category SOIL

 	VOLATIL	E ORG	ANIC	:S			
NAME OF COMPOUND		MF PUR		ISO UK (1)			RT (3)
		_	- - -				-
		_	-				
 		_	- - -	 			
	Notes and Definit UNITS DATE SPECTROSCOPIST Comments:	05/:	ug/Ko	3			
	(4) 20 2						
	 (1) RS - Reasonable ISO- Isomer or UK - Unknown, (2) Calculated vs as a simple ratio (3) RT vs 1,4-dict 	not neare / pro	ilar in NE est e port	compound 3S Library Luting in tion.	, iternal	standar	rd

TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE # 08 FRACTIONS: A SAMPLE ID PED-8413NU-SS-05 Date & Time Collected <u>05/12/97 16:26:00</u> Category <u>SOIL</u> PB 16.7 mg/Kg DL=2.69

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Received: 05/13/97 Results by Sample

SAMPLE ID PED-B413NN-SS-05 FRACTION OBA TEST CODE 8260 NAME PURGEABLE ORGANICS VOA

Date & Time Collected <u>05/12/97 16:26:00</u> Category <u>SOIL</u>

EPA 8260 PURGEABLE ORGANICS

	RESULT L	TIMI,		RESULT	L	.IMIT
Chioromethane	<u>ND</u>	20	o—Xy Lene		ND	10
Bromomethane	ND	10	m-Xylene		ND	10
Vinyl Chloride	ND	4.0	p-Xylene		ND	10
Chloroethane	ND	20	1,2-Dichlorobenzene		ND	10
Methylene Chloride	ND	20	1,3-Dichlorobenzene		ND	10
1,1-Dichloroethene	ND	10	1,4-Dichlarobenzene		ND	10
Trichlorofluoromethane	ND	20	Naphthalene		NĐ	20
1,1-Dichloroethane	ND	10	n-Propylbenzene		ND	20
Trans-1,2-Dichloroethene	ND	<u>10</u>	Bromobenzene		ND	10
Chloroform	ND	10	Bromchloromethane		ND	10
1,2-Dichloroethane	<u>NĐ</u>	10	n-Butylbenzene		ND	20
1,1,1-Trichtoroethane	ND	10	sec-Butylbenzene		ND	20
Carbon Tetrachloride	ND	10	tert-Butylbenzene		ND	20
Bromodichloromethane	ND	10	2-Chlorotoluene		ND	10
1,2-Dichloropropane	NĐ	10	4-Chlorotoluene		ND	10
Trichloroethene	ND	10	1,2-Dibromo-3-chloropropane		ND	10
Dibromochloromethane	ND	10	1,2-Dibromomethane		ND	10
1,1,2-Trichloroethane	ND	10	Dibromomethane		ŅD	10
Benzene	ND	10	Dichlorodifluoromethane		ND	20
1,1-Dichloropropene	ND	10	cis-1,2-Dichloroethene		ND	10
2-2-Dichlorpropane	ND	10	1,3-Dichloropropane		NĐ	10
Bromoform	ND	10	1,1,1,2-Tetrachloroethane		ND	10
Hexachlorobutadiene	ND	20	1,2,3-Trichtorobenzene		ND	10
Isopropylbenzene	ND	20	1,1,2,2-Tetrachloroethane		ND	10
Tetrachloroethene	ND	10	1,2,4-Trichlorobenzene		ND	10
Methyl tertiary butyl ether	185	10	1,2,3-Trichloropropane		ΝĐ	10
Tolu e ne	ND	10	1,2,4-Trimethylbenzene		ND	20
Chlorobenzene	ND	10	1,3,5-Trimethylbenzene		ND	20
Ethyl Benzene	ND	10	cis-1,3-Dichloropropene		ND	10
p-Isopropyltoluene	ND	20	trans-1,3-Dichloropropene		ND	10
			Styrene		ND	10

ANALYST	CMD		
INSTRUMENT	<u></u>	G	
DIL. FACTOR	2		
UNITS	<u>ua/Ka</u>		
COMMENTS			

Work Order # 97-05-197

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Received: 05/13/97 Results by Sample

Results by Sample

SAMPLE ID PED-8413NN-SS-05 FRACTION 08A TEST CODE TICY NAME T.I.C. Volatiles Date & Time Collected 05/12/97 16:26:00 Category SOIL

E OF			MF						
				RS	ISO	UK	CONC.		
			- 	· -	 				-
			· —	- - - -	 				-
				- -	 		 		
		-		- - -	 		 -		
	UNITS DATE SPECTROS	SCOPIST	05/1 CMD	ug/Ko 16/9	9 7				
							<u> </u>		
	UK ~ (2) Catc as a sim (3) RT v	Unknown, ulated vs ple ratio s 1,4-dic	not i neare / pro hlorob	in NE est e oport outar	S Lib Lutin Lion. Te for	orary ng in vol	ternal : atiles.		
		UNITS DATE SPECTROS Comments (1) RS - ISO- UK - (2) Calc as a sim (3) RT v * This s by an ex which wo	UNITS DATE SPECTROSCOPIST Comments: NO (1) RS - Reasonab ISO- Isomer o UK - Unknown, (2) Calculated vs as a simple ratio (3) RT vs 1,4-dick * This shall mean by an experienced	UNITS	UNITS	UNITS	UNITS	DATE	UNITSug/Kg DATE05/16/97 SPECTROSCOPIST CMD Comments: NO UNKNOWN PEAKS DETECTED. (1) RS - Reasonable Identification * ISO- Isomer or similar compound UK - Unknown, not in NBS Library (2) Calculated vs nearest eluting internal standar as a simple ratio / proportion.

TOXIKON CORP. REPORT

Hork Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-8413NW-SS-06 SAMPLE # 09 FRACTIONS: A Date & Time Collected 05/12/97 16:30:00 Category SOIL PB_____15.1 mg/Kg DL=2.69

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Received: 05/13/97 Results by Sammia

SAMPLE ID PED-B413NW-SS-06 FRACTION 09A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected 05/12/97 16:30:00 Category SOIL

	RESULT LIMIT		RESULT LIMIT
Chloromethane	ND1	<u>O</u> o-Xylene	ND 5.0
Bromomethane	ND _5.	<u>0</u> m−Xylene	ND 5.0
Vinyl Chloride	<u>ND 2.</u>	<u>O</u> p—Xylene	ND 5.0
Chloroethane	ND1	0 1,2-Dichlorobenzene	ND 5.0
Methylene Chloride	ND1	0 1,3-Dichlorobenzene	ND 5.0
1,1-Dichloroethene	<u>NĐ 5.</u>	0 1,4-Dichlorobenzene	ND 5.0
Trichlorofluoromethane	ND1	O Naphthalene	ND 10
1,1-Dichloroethane	ND5.	<u>O</u> n-Propylbenzene	ND 10
Trans-1,2-Dichloroethene	ND5.	O Bromobenzene	ND 5.0
Chloroform	<u> </u>	O Bromchloromethane	ND 5.0
1,2-Dichloroethane	ND _ 5.	<u>O</u> n-Butylbenzene	ND 10
1,1,1-Trichloroethane	ND _5.	O sec-Butylbenzene	ND 10
Carbon Tetrachloride	ND _ 5.	<u>0</u> tert-Butylbenzene	ND 10
Bromodichloromethane	<u>ND 5</u>	<u>0</u> 2-Chlorotaluene	ND 5.0
1,2-Dichloropropane	<u>ND 5.</u>	<u>0</u> 4-Chlorotoluene	ND 5.0
Trichloroethene	ND5.	0 1,2-Dibromo-3-chloropropane	ND 5.0
Dibromochloromethane	ND5.	0 1,2-Dibromomethane	ND 5.0
1,1,2-TrichLoroethane	<u>ND</u> 5.	O Dibromomethane	ND 5.0
Benzene	ND _ 5.	O Dichlorodifluoromethane	ND 10
1,1-Dichloropropene	<u>ND</u> 5.	<u>0</u> cis-1,2-Dichloroethene	ND 5.0
2-2-Dichlorpropane	ND5.	0 1,3-Dichtoropropane	ND 5.0
Bromoform	ND5.0	0 1,1,1,2-Tetrachloroethane	ND 5.0
Hexachlorobutadiene	ND1	0 1,2,3-Trichlorobenzene	ND 5.0
Isopropylbenzene	ND 1	1,1,2,2-Tetrachloroethane	ND 5.0
Tetrachloroethene	ND	2 1,2,4-Trichlorobenzene	ND 5.0
Methyl tertiary butyl ether	<u>ND</u> 5.0	1,2,3-Trichloropropane	ND 5.0
Toluene	ND 5.0	1,2,4-Trimethylbenzene	N0 10
Chiorobenzene	ND	1,3,5-Trimethylbenzene	ND 10
Ethyl Benzene	ND _5.0	cis-1,3-Dichloropropene	ND 5.0
p-Isopropyltoluene	<u>ND</u> 10		ND 5.0
		Styrene	ND 5.0

ANALYST	<u>CMD</u>	
INSTRUMENT	G	
DIL. FACTOR	1	
UNITS	ug/Kg	
COMMENTS		

TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-B413NW-SS-06 FRACTION 09A TEST CODE TICY NAME T.I.C. Volatiles

Date & Time Collected <u>05/12/97 16:30:00</u> Category <u>SOIL</u>

SUMMARY OF NBS (38,700+ analyte version, April '82) LIBRARY SEARCH RESULTS OF NONTARGETED PEAKS WITH ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS VOLATILE ORGANICS									
	NAME OF COMPOUND		MF PUR	ASS	ISO	NT UK	EST. CONC. (2)		
				-	 	_			
				- - -	 		·		
			<u>-</u>	-	 		·		
			<u>-</u>	- - -	 				
	UNIT Date Spec	es and Definit	05/1 CMD	<u>ug/K</u> 15/9	1 7				
	(2) as a (3) * Th by a	RS - Reasonabl ISO- Isomer or UK - Unknown, Calculated vs a simple ratio RT vs 1,4-dich is shall mean an experienced th would by his	simmot neare / production / pro	ilar in NB est e oport outar asses spec	composition. ion. for for saments.	ound prary ng ir vol t of	/ nternal .atiles. the lib etation	rary sa	earch alist

TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-B413NW-SS-07 SAMPLE # 10 FRACTIONS: A Date & Time Collected 05/12/97 16:50:00 Category SOIL PB____14.5 mg/Kg DL=2.69

Received: 05/13/97

SAMPLE ID PED-B413NN-SS-07 FRACTION 10A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected <u>05/12/97 16:50:00</u> Category <u>SOIL</u>

	RESULT LIM	IT		RESULT	٤	IMIT
Chloromethane	ND	10	o-Xylene		ND	5.0
Bromomethane	ND	5.0	m-Xylene		ND	_5.0
Vinyl Chloride	ND	2.0	p–Xy Lene		ND	5.0
Chloroethane	ND	10	1,2-Dichlorobenzene		ΝĐ	5.0
Methylene Chloride	ND	10	1,3-Dichlorobenzene		ND	5.0
1,1-Dichtoroethene	ND	5.0	1,4-Dichlorobenzene		ND	5.0
Trichlorofluoromethane	ND	10	Naphthalene		ND	10
1,1-Dichloroethane	ND	5.0	n-Propylbenzene		ND	10
Trans-1,2-Dichloroethene	ND	5.0	Bromobenzene		ND	_ 5.0
Chloroform	ND	5.0	Bromchloromethane		ND	5.0
1,2-Dichloroethane	ND	5.0	n-Butylbenzene		NĐ	10
1,1,1-Trichloroethane	ND	<u>5.0</u>	sec-Butylbenzene		ND	
Carbon Tetrachloride	ND	<u>5.0</u>	tert-Butylbenzene		ND	10
Bromodichloromethane	ND	5.0	2-Chlorotoluene		ND	5.0
1,2-Dichloropropane	ND	5.0	4-Chlorotoluene		ND	5.0
Trichloroethene	ND	<u>5.0</u>	1,2-Dibromo-3-chloropropane		NĐ	5.0
DibromochLoromethane	ND	<u>5.0</u>	1,2-Dibromomethane		ND	5.0
1,1,2-Trichloroethane	ND	<u>5.0</u>	Dibromomethane		ND	5.0
Benzene	ND	5.0	Dichlorodifluoromethane		ND	10
1,1-Dichloropropene	ND	5.0	cis-1,2-Dichloroethene		ND	5.0
2-2-Dichlorpropane	ND !	5.0	1,3-Dichloropropane		ND	5.0
Bromoform	ND	5.0	1,1,1,2-Tetrachloroethane		ND	5.0
Hexachlorobutadiene	ND	10	1,2,3-Trichlorobenzene		ND	5.0
Isopropylbenzene	ND	10	1,1,2,2-Tetrachloroethane		ND	5.0
Tetrachloroethene	ND	5.0	1,2,4-Trichlorobenzene		ND	5.0
Methyl tertiary butyl ether	ND	<u>5.0</u>	1,2,3-Trichloropropane		ND	5.0
Toluene	ND	5.0	1,2,4-Trimethylbenzene		ND	10
Chlorobenzene	ND	5.0	1,3,5-Trimethylbenzene		ND	10
Ethyl Benzene	ND 5	5.0	cis-1,3-Dichloropropene		ND	5.0
p-Isopropyltoluene	ND	10	trans-1,3-Dichloropropene		ND	5.0
			Styrene		ND	5.0

INALYST	<u>CMD</u>		
INSTRUMENT		G	
DIL. FACTOR	1		
UNITS	<u>uq/Kq</u>		
COMMENTS			

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SAMPLE ID PED-B413NU-SS-07 FRACTION 10A TEST CODE TICV NAME T.I.C. Volatiles Date & Time Collected 05/12/97 16:50:00 Category SOIL

SCAN NAME COMPOL			MF	ASSESS RS IS			
			- -	 			
							<u> </u>
			· —	 	 		 - — - —
			· —	 	 		
			<u> </u>	 	<u>-</u>		
		and Definit			is Repo	rt:	
		• • • • • • • • • • • • • • • • • • • •					
				5/97			
		NO I	UNKNOW	N PEAK	S DETE	STED.	
	IS	S - Reasonab SO- Isomer o K - Unknown,	ır simil	lar co	mpound		
	(2) Ca as a s	alculated vs simple ratio	neares / prop	st elu portio	uting is on.	nternal	rdi
		T vs 1,4-dich s shall mean					

TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-B413NW-SS-08	SAMPLE # 11 FRACTIONS: A
	Date & Time Collected 05/12/97 16:55:00 Category SOIL
PB 14.0	
mg/Kg DL=2.69	,

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Received: 05/13/97 Results by Sample

Results by Sample

SAMPLE ID PED-B413NH-SS-08 FRACTION 11A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected <u>05/12/97 16:55:00</u> Category <u>SOIL</u>

Chloromethane ND 10 o-Xylene ND 5.0 Bromomethane ND 5.0 m-Xylene ND 5.0 Vinyl Chloride ND 2.0 p-Xylene ND 5.0 Chloroethane ND 10 1,2-Dichlorobenzene ND 5.0 Methylene Chloride ND 10 1,3-Dichlorobenzene ND 5.0 1,1-Dichloroethene ND 5.0 1,4-Dichlorobenzene ND 5.0 1,1-Dichloroethane ND 5.0 Propylbenzene ND 10 1,1-Dichloroethane ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromobenzene ND 5.0 Chlorofoloroethane ND 5.0 Bromofoloromethane ND 5.0 1,1-Torichloroethane ND		RESULT (IMIT		RESULT	L	IMIT
Bromomethane ND 5.0 m-Xylene ND 5.0 Vinyl Chloride ND 2.0 p-Xylene ND 5.0 Chloroethane ND 10 1,2-Dichlorobenzene ND 5.0 Methylene Chloride ND 10 1,3-Dichlorobenzene ND 5.0 1,1-Dichloroethene ND 5.0 1,4-Dichlorobenzene ND 5.0 Trichloroethane ND 5.0 n-Propylbenzene ND 10 Trans-1,2-Dichloroethane ND 5.0 Bromchloromethane ND 5.0 Chloroform ND 5.0 Bromchloromethane ND 5.0 1,2-Dichloroethane ND 5.0 Bromchloromethane ND 5.0 1,1-1-Trichloroethane ND 5.0 tert-Butylbenzene ND 10 2-rbothloropropane ND 5.0 tert-Butylbenzene ND 10 3-rbothloropropane ND 5.0 tert-Butylbenzene ND 5.0	Chloromethane	ND	10	o-Xylene		ND	5.0
Vinyl Chloride ND 2.0 p-Xylene ND 5.0 Chloroethane ND 10 1,2-Dichlorobenzene ND 5.0 Methylene Chloride ND 10 1,3-Dichlorobenzene ND 5.0 1,1-Dichloroethene ND 5.0 1,4-Dichlorobenzene ND 5.0 1,1-Dichloroethane ND 5.0 Naphthalene ND 10 1,1-Dichloroethane ND 5.0 Bromobenzene ND 10 1,1-Dichloroethane ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromobenzene ND 5.0 1,2-Dichloroethane ND 5.0 Bromobenzene ND 5.0 1,1-Torichloroethane ND 5.0 Bromobenzene ND 10 Carbon Tetrachloride ND 5.0 tetr-Butylbenzene ND 10 Carbon Tetrachloroethane </td <td>Bromomethane</td> <td>ND</td> <td>5.0</td> <td>m-Xylene</td> <td></td> <td>ND</td> <td>5.0</td>	Bromomethane	ND	5.0	m-Xylene		ND	5.0
Methylene Chloride ND 10 1,3-pichlorobenzene ND 5.0 1,1-Dichloroethene ND 5.0 1,4-Dichlorobenzene ND 5.0 Trichlorofluoromethane ND 10 Naphthalene ND 10 1,1-Dichloroethane ND 5.0 n-Propylbenzene ND 10 Trans-1,2-Dichloroethene ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromobenzene ND 5.0 1,2-Dichloroethane ND 5.0 Bromobenzene ND 5.0 1,2-Dichloroethane ND 5.0 Bromobenzene ND 5.0 1,1-Trichloroethane ND 5.0 n-Butylbenzene ND 10 1,1-Trichloroethane ND 5.0 tert-Butylbenzene ND 10 1,2-Dichloropropane ND 5.0 tert-Butylbenzene ND 10 1,1-Z-Trichloroethane ND 5.0 1,2-Dibromomethane ND 5.0 <	Vinyl Chloride	ND	2.0	p~Xylene		ND .	
Methylene Chloride ND 10 1,3-Dichlorobenzene ND 5.0 1,1-Dichlorotethene ND 5.0 1,4-Dichlorobenzene ND 5.0 Trichlorofluoromethane ND 10 Naphthalene ND 10 1,1-Dichlorotethane ND 5.0 Brombenzene ND 5.0 Chloroform ND 5.0 Brombenzene ND 5.0 Chloroform ND 5.0 Brombenzene ND 5.0 1,2-Dichloroethane ND 5.0 Brombenzene ND 5.0 1,2-Dichloroethane ND 5.0 Brombenzene ND 5.0 1,1-1-Trichloroethane ND 5.0 sec-Butylbenzene ND 10 Bromodichloromethane ND 5.0 tert-Butylbenzene ND 10 1,2-Dichloropropane ND 5.0 4-Chlorotoluene ND 5.0 1,1-Corrichloroethane ND 5.0 1,2-Dibromomethane ND 5.0 <td< td=""><td>Chloroethane</td><td>NĐ</td><td>10</td><td>1,2-Dichlorobenzene</td><td></td><td>ND</td><td>5.0</td></td<>	Chloroethane	NĐ	10	1,2-Dichlorobenzene		ND	5.0
Tricklorofluoromethane ND 10 Naphthalene ND 10 1,1-Dickloroethane ND 5.0 n-Propylbenzene ND 10 Trans-1,2-Dickloroethane ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromchloromethane ND 5.0 1,2-Dickloroethane ND 5.0 n-Butylbenzene ND 10 1,1,1-Trickloroethane ND 5.0 sec-Butylbenzene ND 10 Bromodickloromethane ND 5.0 tert-Butylbenzene ND 10 Bromodickloromethane ND 5.0 tert-Butylbenzene ND 10 1,2-Dickloropropane ND 5.0 4-Chlorotoluene ND 5.0 1,2-Dibromochloromethane ND 5.0 1,2-Dibromochloropropane ND 5.0 1,1,2-Trickloroethane ND 5.0 Dicklorodifluoromethane ND 5.0 1,1-Dickloropropane ND 5.0 Dicklorodifluoromethane ND <td>Methylene Chloride</td> <td>ND</td> <td>10</td> <td>1,3-Dichlorobenzene</td> <td></td> <td>ND</td> <td></td>	Methylene Chloride	ND	10	1,3-Dichlorobenzene		ND	
1,1-Dickloroethane ND 5.0 n-Propylbenzene ND 10 Trans-1,2-Dickloroethene ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromchloromethane ND 5.0 1,2-Dickloroethane ND 5.0 n-Butylbenzene ND 10 1,1,1-Trickloroethane ND 5.0 sec-Butylbenzene ND 10 Carbon Tetrachloride ND 5.0 tert-Butylbenzene ND 10 Bromodichloromethane ND 5.0 tert-Butylbenzene ND 10 1,2-Dickloropropane ND 5.0 tert-Butylbenzene ND 10 1,2-Dickloropropane ND 5.0 4-Chlorotoluene ND 5.0 1,2-Dickloropropane ND 5.0 1,2-Dibromo-3-chloropropane ND 5.0 Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1-1-Trickloroethane ND 5.0 Dicklorodifluoromethane ND	1,1-Dichlaroethene	ND	5.0	1,4-Dichlorobenzene		ND	5.0
Trans-1,2-Dickloroethene ND 5.0 Bromobenzene ND 5.0 Chloroform ND 5.0 Bromothoromethane ND 5.0 1,2-Dickloroethane ND 5.0 n-Butylbenzene ND 10 1,1,1-Trickloroethane ND 5.0 sec-Butylbenzene ND 10 Carbon Tetrackloride ND 5.0 tert-Butylbenzene ND 10 Bromodichloromethane ND 5.0 tert-Butylbenzene ND 10 Bromodichloromethane ND 5.0 tert-Butylbenzene ND 10 1,2-Dickloropropane ND 5.0 tert-Butylbenzene ND 10 1,2-Dickloropropane ND 5.0 tert-Butylbenzene ND 10 1,2-Dickloropropane ND 5.0 tert-Butylbenzene ND 5.0 1,1,2-Titchloroethane ND 5.0 tert-Butylbenzene ND 5.0 1,1,1-Titchloropropane ND 5.0 tickloropropane ND	Trichlorofluoromethane	ND	10	Naphthalene		ND -	10
Chloroform ND 5.0 Bromchloromethane ND 5.0 1,2-Dichloroethane ND 5.0 n-Butylbenzene ND 10 1,1,1-Trichloroethane ND 5.0 sec-Butylbenzene ND 10 Carbon Tetrachloride ND 5.0 tert-Butylbenzene ND 10 Bromodichloromethane ND 5.0 2-Chlorotoluene ND 5.0 1,2-Dichloropropane ND 5.0 4-Chlorotoluene ND 5.0 1,2-Dibromochloromethane ND 5.0 1,2-Dibromoc-3-chloropropane ND 5.0 Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dichlorodifluoromethane ND 5.0 Benzene ND 5.0 Dichlorodifluoromethane ND 5.0 1,1-Dichloropropane ND 5.0 Dichlorodifluoromethane ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane <	1,1-Dichloroethane	. ND	5.0	n-Propylbenzene		ND	10
1,2-Dichloroethane ND 5.0 n-Butylbenzene ND 5.0 1,1,1-Trichloroethane ND 5.0 sec-Butylbenzene ND 10 Carbon Tetrachloride ND 5.0 tert-Butylbenzene ND 5.0 Bromodichloromethane ND 5.0 2-Chlorotoluene ND 5.0 1,2-Dichloropropane ND 5.0 4-Chlorotoluene ND 5.0 1,2-Dichloropropane ND 5.0 1,2-Dibromo-3-chloropropane ND 5.0 Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dichlorodifluoromethane ND 5.0 1,1-Dichloropropene ND 5.0 Dichlorodifluoromethane ND 5.0 1,1-Dichloropropane ND 5.0 Cis-1,2-Dichloroethane ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 5.0	Trans-1,2-Dichloroethene	ND	5.0	Bromobenzene		ND	5.0
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Carbon Tetrachloride ND 5.0 tert-Butylbenzene ND 10 Bromodichloromethane ND 5.0 2-Chlorotoluene ND 5.0 1,2-Dichloropropane ND 5.0 4-Chlorotoluene ND 5.0 Trichloroethane ND 5.0 1,2-Dibromo-3-chloropropane ND 5.0 Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dibromomethane ND 5.0 1,1-Dichloropropene ND 5.0 Dichlorodifluoromethane ND 5.0 1,1-Dichloropropene ND 5.0 Cis-1,2-Dichloroethene ND 5.0 1,1-Dichloropropane ND 5.0 1,3-Dichloropropane ND 5.0 2-2-Dichloropropane ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenze	1,2-Dichloroethane	ND	5.0	n-Butylbenzene		ND	10
No	1,1,1-Trichtoroethane	ND	<u>5.0</u>	sec-Butylbenzene		ND	10
1,2-Dichloropropane ND 5.0 4-Chlorotoluene ND 5.0 Trichloroethene ND 5.0 1,2-Dibromo-3-chloropropane ND 5.0 Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dibromomethane ND 5.0 Benzene ND 5.0 Dichlorodifluoromethane ND 10 1,1-Dichloropropane ND 5.0 Dichlorodifluoromethane ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,4-Trichloropenpane ND 5.0 Toluene ND 5.0 1,2,3-Trichloropropane	1	ND	5.0	tert-Butylbenzene		ND	10
Trichloroethene ND 5.0 1,2-Dibromo-3-chloropropane ND 5.0 Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dibromomethane ND 5.0 Benzene ND 5.0 Dichlorodifluoromethane ND 10 1,1-Dichloropropene ND 5.0 cis-1,2-Dichloroethane ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,3-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene <td></td> <td>NĐ</td> <td>5.0</td> <td>2-Chlorotoluene</td> <td></td> <td>ND</td> <td>5.0</td>		NĐ	5.0	2-Chlorotoluene		ND	5.0
Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dibromomethane ND 5.0 Benzene ND 5.0 Dichlorodifluoromethane ND 10 1,1-Dichloropropene ND 5.0 cis-1,2-Dichloroethane ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,4-Trimethylbenzene ND 5.0 Toluene ND 5.0 1,3,5-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene	1,2-Dichloropropane	ND	5.0	4-Chlorotoluene		ND	5.0
Dibromochloromethane ND 5.0 1,2-Dibromomethane ND 5.0 1,1,2-Trichloroethane ND 5.0 Dibromomethane ND 5.0 Benzene ND 5.0 Dichlorodifluoromethane ND 10 1,1-Dichloropropene ND 5.0 cis-1,2-Dichloroethene ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,4-Trimethylbenzene ND 5.0 Toluene ND 5.0 1,3,5-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene	Trichloroethene	ND	5.0	1,2-Dibromo-3-chloropropane		ND .	5.0
Benzene ND 5.0 Dichlorodifluoromethane ND 10 1,1-Dichloropropene ND 5.0 cis-1,2-Dichloroethene ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,3-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 trans-1,3-Dichloropropene ND 5.0	Dibromochloromethane	ND	5.0	1,2-Dibromomethane		ND	
Benzene ND 5.0 Dichlorodifluoromethane ND 10 1,1-Dichloropropene ND 5.0 cis-1,2-Dichloroethene ND 5.0 2-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,3-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 trans-1,3-Dichloropropene ND 5.0	1,1,2-Trichloroethane	ND	<u>5.0</u>	Dibromomethane		ND	5.0
Z-2-Dichlorpropane ND 5.0 1,3-Dichloropropane ND 5.0 Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,3-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	Benzene	ND	5.0	Dichlorodifluoromethane		NĐ	
Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,4-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	1,1-Dichloropropene	ND	5.0	cis-1,2-Dichloroethene		ND -	5.0
Bromoform ND 5.0 1,1,1,2-Tetrachloroethane ND 5.0 Hexachlorobutadiene ND 10 1,2,3-Trichlorobenzene ND 5.0 Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,4-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	2-2-Dichlorpropane	N0	5.0	1,3-Dichloropropane		ND	5.0
Isopropylbenzene	Bromoform	ND	5.0	1,1,1,2-Tetrachloroethane		ND	5.0
Isopropylbenzene ND 10 1,1,2,2-Tetrachloroethane ND 5.0 Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,4-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	Hexachlorobutadiene	ND	10	1,2,3-Trichlorobenzene		NĐ	5.0
Tetrachloroethene ND 5.0 1,2,4-Trichlorobenzene ND 5.0 Methyl tertiary butyl ether ND 5.0 1,2,3-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	Isopropylbenzene	ND	10	1,1,2,2-Tetrachloroethane		ND	
Methyl tertiary butyl ether ND 5.0 1,2,3-Trichloropropane ND 5.0 Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	Tetrachloroethene	ND	5.0	1,2,4-Trichlorobenzene		ND	
Toluene ND 5.0 1,2,4-Trimethylbenzene ND 10 Chlorobenzene ND 5.0 1,3,5-Trimethylbenzene ND 10 Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	Methyl tertiary butyl ether	ND	5.0	1,2,3-Trichloropropa ne		ND	
Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 trans-1,3-Dichloropropene ND 5.0 ND 5.0 cis-1,3-Dichloropropene	Toluene	ND	5.0			ND -	
Ethyl Benzene ND 5.0 cis-1,3-Dichloropropene ND 5.0 p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	Chlarobenzene	ND	5.0	1,3,5-Trimethylbenzene			
p-Isopropyltoluene ND 10 trans-1,3-Dichloropropene ND 5.0	Ethyl Benzene	ND	5.0	cis-1,3-Dichloropropene			
——————————————————————————————————————	p-Isopropyltaluene	ND	10				
						NĐ	5.0

DATE RUN	05/15/97
ANALYST	CMD
INSTRUMENT	<u>_</u>
DIL. FACTOR	
UNITS	<u>ug/Kg</u>
COMMENTS	

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TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-8413NW SS-08 FRACTION 11A TEST CODE TICY NAME T.I.C. Volatiles Date & Time Collected 05/12/97 16:55:00 Category SOIL

 SUMMARY OF NBS (38,700+ analyte version, April '82) LIBRARY SEARCH RESULTS OF NONTARGETED PEAKS WITH ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS VOLATILE ORGANICS								
NAME OF COMPOUND		MF PUR		ESSME	UK	EST. CONC. (2)	CAS #	RT (3)
			- - -	 				-
			- - -	 				
			- -	 				
 	Notes and Definit	ions	_ _ for :	 this F	Repor			
	UNITS DATE SPECTROSCOPIST Comments:	05/	15/97	~				
	NO	UNKNO	WN PE	AKS [ETE	CTED.		
	(1) RS - Reasonab ISO- Isomer of UK - Unknown, (2) Calculated vs as a simple ratio (3) RT vs 1,4-dick	r sim not neare / pro	itar in NE est e oport outar	composition.	ound rary ig in	/ nternal .atiles.		
	* This shall mean by an experienced which would by his using WA85-J664,	mass s/her	spec	i. int	erp:	etation e a goo	specia d ident	alist :ification

TOXIKON CORP.

REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID <u>PED-8413NW-D-07</u>	SAMPLE # 12 FRACTIONS: A
	Date & Time Collected <u>05/12/97 16:50:00</u> Category <u>SOIL</u>
PB8.70	
mg/Kg DL=2.69	

Page 36 TOXIKON CORP. REPORT Work Order # 97-05-197
Received: 05/13/97 Results by Sample

SAMPLE ID PED-B413NN-D-07 FRACTION 12A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected 05/12/97 16:50:00 Category SOIL

	RESULT LIMIT		RESULT LIMIT
Chloromethane	<u>ND</u> 10	o-Xytene	ND 5.0
Bromomethane	<u>ND 5,0</u>	m-Xytene	ND 5.0
Vinyl Chloride	ND 2.0	p—Xylene	ND 5.0
Chloroethane	ND10	1,2-Dichlorobenzene	ND 5.0
Methylene Chloride	<u>N0</u> 10	1,3-Dichlorobenzene	ND 5.0
1,1-Dichloroethene	<u>ND 5.0</u>	1,4-Dichlorobenzene	<u>ND</u> 5.0
Trichlorofluoromethane	ND10	Naphthalene	ND 10
1,1-Dichloroethane	<u>ND</u> 5.0	n-Propylbenzene	ND 10
Trans-1,2-Dichloroethene	<u>ND</u> 5.0	Bromobenzene	ND5.0
Chloroform	<u>ND</u> 5.0	Bromchloromethane	<u>ND</u> 5.0
1,2-Dichloroethane	<u>ND 5.0</u>	n-Butylbenzene	ND 10
1,1,1-Trichloroethane	<u>ND</u> 5.0	sec-Butylbenzene	ND10
Carbon Tetrachloride	<u>ND</u> 5.0	tert-Butylbenzene	ND 10
Bromodichloromethane	ND5.0	2-Chlorotoluene	ND _5.0
1,2-Dichloropropane	ND5.0	4-Chlorotoluene	ND 5.0
Trichloroethene	ND5.0	1,2-Dibromo-3-chloropropane	ND 5.0
Dibromochloromethane	ND5.0	1,2-Dibromomethane	ND 5.0
1,1,2-Trichloroethane	ND5.0	Dibromomethane	ND 5.0
Benzene	<u>ND 5.0</u>	Dichlorodifluoromethane	ND 10
1,1-Dichloropropene	ND _5.0	cis-1,2-Dichloroethene	ND
2-2-Dichlorpropane	ND _5.0	1,3-Dichloropropane	<u>ND</u> 5.0
Bromoform	<u>ND 5.0</u>	1,1,1,2-Tetrachloroethane	ND 5.0
Hexachlorobutadiene	<u>ND</u> 10	1,2,3-Trichlorobenzene	ND 5.0
Isopropylbenzene	<u>ND</u> 10	1,1,2,2-Tetrachloroethane	ND 5.0
Tetrachloroethene	<u>ND</u> 5.0	1,2,4-Trichlorobenzene	<u>NĐ</u> 5.0
Methyl tertiary butyl ether	NO 5.0	1,2,3-Trichloropropane	ND 5.0
Toluene	ND _5.0	1,2,4-Trimethylbenzene	ND 10
Chlorobenzene	<u>ND</u> 5.0	1,3,5-Trimethylbenzene	ND
Ethyl Benzene	ND _5.0	cis-1,3-Dichloropropene	ND
p-Isopropyltoluene	ND10	trans-1,3-Dichloropropene	ND 5.0
		Styrene	ND 5.0

ANALYST	CMD
INSTRUMENT	G
DIL. FACTOR	1
JNITS	ug/Kg
COMMENTS	

TOXIKON CORP. REPORT Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-B413NU-D-07 FRACTION 12A TEST CODE TICV NAME T.I.C. Volatiles Date & Time Collected <u>05/12/97 16:50:00</u> Category <u>SOIL</u>

SCAN	NAME OF		MF	224	ESSMEN	ıT	EST.		
	COMPOUND						CONC. (2)	CAS #	RT (3)
<u> </u>				. <u>-</u>	 	_			
				- -	 	_	·		
				- - -	 	_	·		
			_ _	- - -	 	_			
				-		_			
		Notes and Definit UNITS DATE SPECTROSCOPIST Comments:	05/	ug/Ko 15/97	1	epor	rt:		
			UNKNO	WN PE	AKS D	ETEC	TED.		
		(1) RS - Reasonab ISO- Isomer o UK - Unknown, (2) Calculated vs	r sim	ilar in NE	compos S Lib	und rary			

Work Order # 97-05-197

Page 47 TOXIKON CORP.— REPORT
Received: 05/13/97 Results by Sample

SAMPLE ID PED-8413NU-SS-09	SAMPLE # 16 FRACTIONS: A
	Date & Time Collected 05/12/97 16:30:00 Category SOIL
PB15.0	
mg/Kg DL=2.69	
l	

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Page 48 TOXIKON CORP. REPORT Work Order # 97-05-197
Received: 05/13/97 Results by Sample

SAMPLE ID PED-B413NV-SS-09 FRACTION 16A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA

Date & Time Collected <u>05/12/97 16:30:00</u> Category <u>SOIL</u>

	RESULT L	IMIT		RESULT L	IMIT
Chloromethane	ND	10	o-Xytene	ND	5.0
Bromomethane	ND	5.0	m-Xylene	ND	5.0
Vinyl Chloride	ND	2.0	p-Xylene	ND.	5.0
Chloroethane	ND	10	1,2-Dichlorobenzene	ND	5.0
Methylene Chloride	ND	10	1,3-Dichlorobenzene	ND	5.0
1,1-Dichloroethene	ND	5.0	1,4-Dichtorobenzene	ND	5.0
Trichlorofluoromethane	ND	10	Naphthalene	ND	10
1,1-Dichloroethane	ND	5.0	n-Propylbenzene	ND	10
Trans-1,2-Dichloroethene	ND	5.0	Bromobenzene	ND	5.0
Chloroform	ND	5.0	Bromchioromethane	ND	5.0
1,2-Dichloroethane	ND	5.0	n-Butylbenzene	ND	10
1,1,1-Trichloroethane	ND	5.0	sec-Butylbenzene	ND	10
Carbon Tetrachloride	ND	5.0	tert-Butylbenzene	ND	10
Bromodichloromethane	ND	5.0	2-Chlorotoluene	ND	5.0
1,2-Dichloropropane	NĐ	5.0	4-Chlorotoluene	ND	5.0
Trichloroethene	ND	5.0	1,2-Dibromo-3-chloropropane	ND	5.0
Dibromochloromethane	ND	5.0	1,2-Dibromomethane	ND.	_5.0
1,1,2-Trichloroethane	ND	5.0	Dibromomethane	ND	5.0
Benzene	ND	5.0	Dichlorodifluoromethane	NĐ	10
1,1-Dichloropropene	ND _	5.0	cis-1,2-Dichloroethene	ND	5.0
2-2-Dichtorpropane	ND	5.0	1,3-Dichloropropane	ND	5.0
Bromoform	ND ND	5.0	1,1,1,2-Tetrachloroethane	ND	5.0
Hexachlorobutadiene	ND	10	1,2,3-Trichlorobenzene	ND	5.0
Isopropyibenzene	ND ND	10	1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	<u>5.0</u>	1,2,4-Trichlorobenzene		_ 5.0
Methyl tertiary butyl ether	ND ND	5.0	1,2,3-Trichtoropropane	ND	5.0
Toluene	ND	5.0	1,2,4-Trimethylbenzene	ND	10
Chlorobenzene	ND	5.0	1,3,5-Trimethylbenzene	ND	10
Ethyl Benzene	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
p-Isopropyltoluene	ND _	10	trans-1,3-Dichloropropene	ND	5.0
			Styrene	ND	5.0

DATE RUN	05/15/97
ANALYST	<u>CMD</u>
INSTRUMENT	G
DIL. FACTOR	1
UNITS	<u>ug/Kq</u>
COMMENTS	

Page 49 TOXIKON CORP. REPORT Work Order # 97-05-197
Received: 05/13/97 Results by Sample

CAMPIE :	Th DI	ED-8413NU	_cc_00

MPLE ID PED-B413NN-SS-09 FRACTION 16A TEST CODE TICV NAME T.I.C. Volatiles Date & Time Collected 05/12/97 16:30:00 Category SOIL

	LIBRAR	SUMMARY OF NBS (38,700+ analyte version, BRARY SEARCH RESULTS OF NONTARGETED PEAKS CONCENTRATION OF TENTATIVELY IDENTIFIED VOLATILE ORGANICS						WITH ESTIMATED		
SCAN NUM.	NAME OF		MF	ASS	ESSME	NT UK	EST. CONC. (2)		RT (3)	
			·	· -	 		·			
			· —	· -	 					
			· —	· -	 					
		Notes and Definit UNITS DATE SPECTROSCOPIST Comments:	05/ <u>CMD</u>	ug/Ko 16/9	9 7					
		(1) RS - Reasonab ISO- Isomer o UK - Unknown, (2) Calculated vs as a simple ratio (3) RT vs 1,4-dic * This shall mean by an experienced which would by his	not near / pro hlorol the a	in NE est e oponi butar asses	composition. The forms sment controls in the control in the cont	ound orary ng in r vol t of terpr	eternal atiles. the lib	rary se specia	earch Blist	

TOXIKON CORP. REPORT - Work Order # 97-05-197

Received: 05/13/97

Results by Sample

SAMPLE ID PED-B413NN-SS-10 FRACTION 17A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected <u>05/12/97 16:35:00</u> Category <u>SOIL</u>

	RESULT L	TIMI		RESULT	LIMIT
Chloromethane	ND	10	o-Xylene	N	D 5.0
Bromomethane	<u>NĐ</u>	5.0	m-Xylene	N	0 5.0
Vinyl Chloride	ND	2.0	p-Xylene	N	<u>0</u> 5.0
Chloroethane	ND	10	1,2-Dichlorobenzene	N	0 5.0
Methylene Chloride	ND	10	1,3-Dichlorobenzene	N	D 5.0
1,1-Dichloroethene	ND	5.0	1,4-Dichlorobenzene	N	
Trichlorofluoromethane	ND	10	Naphthalene	N	
1,1-Dichloroethane	N0	5.0	n-Propylbenzene	N	D 10
Trans-1,2-Dichloroethene	ND	5.0	Bromobenzene	N	D 5.0
Chloroform	ND	5.0	Bromchloromethane	N	D 5.0
1,2-Dichloroethane	ND	5.0	n-Butylbenzene	N	
1,1,1-TrichLoroethane	ND	5.0	sec-Butylbenzene	_ N	D 10
Carbon Tetrachloride	ND	5.0	tert-Butylbenzene	N	0 10
Bromodichloromethane	ND	5.0	2-Chlorotoluene	N	D 5.0
1,2-Dichloropropane	ND	5.0	4-Chlorotoluene	N	D 5.0
Trichloroethene	ND	5.0	1,2-Dibromo-3-chloropropane	N	D
Dibromochloromethane	ND	5.0	1,2-Dibromomethane	N	
1,1,2-Trichloroethane	ND	5.0	Dibromomethane	N	
Benzene	ND	5.0	Dichlorodifluoromethane	N	
1,1-Dichloropropene	ND	5.0	cis-1,2-Dichloroethene	N	D 5.0
2-2-Dichlorpropane	ND.	5.0	1,3-0ichloropropane	N	
Bromoform	ND	5.0	1,1,1,2-Tetrachloroethane	N	5.0
Hexachlorobutadiene	ND	10	1,2,3-Trichlorobenzene	N.	
Isopropylbenzene	ND	10	1,1,2,2-Tetrachloroethane	N	5.0
Tetrachloroethene	ND	5.0	1,2,4-Trichlorobenzene	_ N	
Methyl tertiary butyl ether	ND	5.0	1,2,3-Trichtoropropane	N	5.0
Toluene	ND	5.0	1,2,4-Trimethylbenzene	N	10
Chlorobenzene	ND	5.0	1,3,5-Trimethylbenzene	NI NI	
Ethyl Benzene	ND	5.0	cis-1,3-Dichloropropene	NI	5.0
p-Isopropyltoluene	ND	10	trans-1,3-Dichloropropene	NI	
			Styrene	N!	

ANALYST	<u>CMD</u>	
INSTRUMENT	G	
DIL. FACTOR	1	
UNITS	ug/Kg	
COMMENTS		

Work Order # 97-05-197

Page 52 TOXIKON CORP. REPORT
Received: 05/13/97 Results by Sample

SAMPLE ID PED-B413NV-SS-10 FRACTION 17A TEST CODE TICV NAME T.I.C. Volatiles Date & Time Collected <u>05/12/97 16:35:00</u> Category <u>SOIL</u>

NAME OF COMPOUND		MF PUR	-	ESSMENT ISO UK (1)	CONC.	CAS #	RT (3)
			· _	 	 ·		
 			· <u>-</u>	<u>-</u> 			
			 	— — —			·
	Notes and Definiti		- ·				· ——
	UNITS DATE SPECTROSCOPIST Comments:	05/	ug/Ka 15/97	1	*:		
		INKNO	JN PE	AKS DETEC	<u>:TED.</u>		
	(1) RS - Reasonabi ISO- Isomer or UK - Unknown, (2) Calculated vs as a simple ratio	not i	ilar d in NB: est el	compound S Library luting in	у	standar	'nd

Page 53 TOXIKON CORP. REPORT Work Order # 97-05-197
Received: 05/13/97 Results by Sample

SAMPLE ID TRIP BLANK . FRACTION 18A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA Date & Time Collected <u>not specified</u> Category <u>WATER</u>

	RESULT L	IMIT		RESULT	LIMIT
Chloromethane	ND	10	o-Xylene		ND 5.0
Bromomethane	ND	5.0	m-Xylene		ND _ 5.0
Vinyl Chloride	ND	2.0	p-Xylene		ND 5.0
Chloroethane	ND	<u>10</u>	1,2-Dichtorobenzene		ND 5.0
Methylene Chloride	ND	10	1,3-Dichlorobenzene		ND
1,1-Dichloroethene	ND	5.0	1,4-Dichlorobenzene		ND _ 5.0
Trichlorofluoromethane	ND	10	Naphthalene		ND10
1,1-Dichloroethane	ND	5.0	n-Propylbenzene		ND 10
Trans-1,2-Dichloroethene	ND	5.0	Bromobenzene		ND 5.0
Chloroform	ND	5.0	Bromchloromethane		ND 5.0
1,2-Dichloroethane	ND	_ 5.0	n-Butylbenzene		ND 10
1,1,1-Trichtoroethane	ND	5.0	sec-Butylbenzene		<u>ND</u> 10
Carbon Tetrachloride	ND	5.0	tert-Butylbenzene		ND10
Bromodichloromethane	ND	5.0	2-Chlorotoluene		ND 5.0
1,2-Dichloropropane	ND	5.0	4-Chlorotoluene		ND 5.0
Trichloroethene	ND	5.0	1,2-Dibromo-3-chloropropane		ND 5.0
Dibromochloromethane	ND	<u>5.0</u>	1,2-Dibromomethane		ND 5.0
1,1,2-Trichloroethane	ND	5.0	Dibromomethane		ND 5.0
Benzene	ND	<u>5.0</u>	Dichlorodifluoromethane		ND10
1,1-Dichloropropene	ND	5.0	cis-1,2-Dichloroethene		ND 5.0
2-2-Dichtorpropane	ND	5.0	1,3-Dichloropropane		ND 5.0
Bromoform	ND	5.0	1,1,1,2-Tetrachloroethane		NO 5.0
Hexachlorobutadiene	ND	10	1,2,3-Trichlorobenzene		ND5.0
Isopropylbenzene	ND.	10	1,1,2,2-Tetrachloroethane		ND 5.0
Tetrachloroethene	ND	5.0	1,2,4-Trichlarobenzene		ND 5.0
Methyl tertiary butyl ether	<u>ND</u>	5.0	1,2,3-Trichloropropane		ND5.0
Toluene	ND	5.0	1,2,4-Trimethylbenzene		ND 10
Chlorobenzene	N0	5.0	1,3,5-Trimethylbenzene		ND 10
Ethyl Benzene	ND	5.0	cis-1,3-Dichloropropene		ND 5.0
p-Isopropyltoluene	ND	10	trans-1,3-Dichloropropene		ND5.0
			Styrene		ND 5.0

DATE RUN ANALYST	05/16/97 CMD	
INSTRUMENT	<u>5110</u>	
DIL. FACTOR	1	
UNITS	<u>ug/L</u>	
COMMENTS		

TOXIKON CORP. REPORT

Work Order # 97-05-197

Received: 05/13/97

Results by Sample

AMPLE	ÍΒ	TRIP	RI ANK	FRACTION 1	18a

FRACTION 18A TEST CODE TICV NAME T.I.C. Volatiles Date & Time Collected <u>not specified</u> Category <u>WATER</u>

	LIBRA	MMARY OF NBS (38,700 RY SEARCH RESULTS OF ONCENTRATION OF TENT VOLATIL	NONT ATIVE	ARGE LY I ANIC	TED PEAKS DENTIFIED	WITH E	STIMATE NDS	
	NAME OF COMPOUND		MF	ASS	ESSMENT ISO UK (1)	EST.		RT
				· -	 	 -		-
				. <u>-</u>				
			_	- - -	 			
			_	- -		 -		
			_	- -	-			
			_	- -		_ -		
		Notes and Definiti	ons	- for 1	this Repor			
		UNITS DATE SPECTROSCOPIST	05/	u <u>g/l</u> 16/97	<u>.</u>			
		Comments:	UNKN	OWN F	PEAKS DETE	ECTED		
		(1) RS - Reasonable ISO- Isomer or UK - Unknown,	sim not	ilar in NE	compound 3S Library	<i>(</i>		
		(2) Calculated vs as a simple ratio (3) RT vs 1,4-dich * This shall mean	/ pro lorob the a	oport outan asses	ion. ne for vol ssment of	atiles. the lib	rary se	earch
		by an experienced which would by his using WA85-J664, J	/her	conc	urrence b	e a goo	d ident	ification

TOXIKON CORP.

REPORT

Work Order # 97-05-197

Received: 05/13/97

Test Methodology

TEST CODE 8260 NAME PURGEABLE ORGANICS VOA

EPA METHOD: 8260: Gas Chromatography/Mass Spectrometry for Volatile Organics.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.

EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

TEST CODE MEX TS NAME METALS, TOTAL EXT., SOIL

REFERENCE:

EPA METHOD 3050: Acid Digestion of Sediments, Sludges and Soils. Test Methods for Evaluating Solid Waste Physical/Chemical Methods. SW 846, 3rd Edition.

Analytical Method for ICP:6010A

TEST CODE TICY NAME T.I.C. Volatiles

EPA METHOD: 624

Reference: Methods for Organic Chemical Analysis of Municipal and

Industrial Wastewater. Appendix A. 40CFR Part 136.

Federal Register Vol. 49, No. 209, 1984.

LABORATORY CHRONICLE

All samples were chilled to 4°C at the time of receipt at Toxikon.

Toxikon Work Order #: 9705197

Date of Sample Collection: 05/12/97

Sample ID: As per Chain of Custody

ANALYSIS:

Purgeable Organics VOA (8260) 05/15/97, 05/16/97, 05/19/97

Metals (Pb)

Extraction 05/16/97

Analysis 05/19/97

Holding times were met for all sample analyses.

CONFORMANCE/NON-CONFORMANCE SUMMARY

Work Order #: 9705197

I certify that the reported laboratory results were prepared under my direction or supervision in accordance with a system designed to assure qualified personnel evaluate the information submitted. I certify that the information submitted is true, accurate, and complete to the best of my knowledge and belief. The analyses were conducted without deviation from accepted practices, and were reviewed by the Quality Assurance Department.

Douglas V. Sheeley

Laboratory Manager

Date

CASE NARRATIVE

Work Order: 9705197

All samples were analyzed within the method holding times.

No target compounds were detected in the method blanks.

TOXIKON

GC/MS VOLATILE SURROGATE % RECOVERY (METHOD 8260)

PROJECT #: 9705197 MATRIX: SOIL

SAMPLE NUMBER	\$1 (DBF) #	S2 (TOL) #	S3 (BFB) #
METHOD BLANK 5/15	98	96	95
9705197.1	95	94	91
9705197.2	94	93	91
9705197.3	97	93	92
9705197.5	99	94	93
9705197.7	98	96	94
9705197.9	98	98	93
9705197.10	103	95	93
9705197.11	100	94	93
9705197.12	102	98	94
9705197.14	102	98	94
9705197.17	102	96	92
METHOD BLANK 5/16	102	97	96
MS9705197.1	96	94	90
MSD9705197.1	95	93	87
9705197.6	99	82	112
9705197.8	101	91	94
9705197.16	104	87	88
9705197.18	87	107	99
METHOD BLANK 5/19	98	96	95
9705197.4	98	96	95
9705197.13	97	95	94
9705197.15	92	93	89

	QC LI	IMITS
	SOIL	WATER
S1 (DBF) = Dibromofluoromethane	(80 - 120)	(86 - 118)
S2 (TOL) = Toluene-d8	(81 - 117)	(88 - 110)
S3 (BFB) = 4-Bromofluorobenzene	(74 - 121)	(86 - 115)

TOXIKON CORP

VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

DATE RUN: May 16,1997

METHOD: 8260

WORK ORDER#: 9705197

MATRIX: SOIL

SAMPLE #: 9705197.01

UNITS: ug/Kg

DATA FILES: >G2566

>G2567

TOXIKON PROJECT#: 9705197

											Q	C LIN	AIT S	3 *		
COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC.	CONC. MSD	i	%REC MS					Ri	PD	RPD	RECOVER		/ERY
1,1-Dichloroethene	50	0.00	48.96	48.95	98	ок	98	ok	0	OK	22	59	_	172		
Benzene	50	0.00	42.26	42.78	85	ок	86	ок	1	ΟK	21	66	_	142		
Trichloroethene	50	0.00	40.66	40.59	81	ок	81	ок	0	ок	24	62	_	137		
Toluene	50	0.00	39.50	39.53	79	ок	79	ок	0	OK,	21	59	-	139		
Chlorobenzene	50	0.00	40.86	41.87	82	ок	84	ок	2	ок	21	60	-	133		

 $\underline{0}$ out of $\underline{5}$ outside limits $\underline{0}$ out of $\underline{10}$ outside limits Spike Recovery:

* = Values outside of QC limits

TOXIKON

QC SUMMARY - METALS

PROJECT: 9705197

SPIKE SAMPLE: 9705197.1

MATRIX: SOIL

HG SPIKE SAMPLE: NA

ANALYTE	METHOD	MS	LCS	DUPLICATE
	BLANK	(% REC)	(% REC)	(% RPD)
Pb	ND	64	100	8.2

ACCEPTANCE CRITERIA

ANALYTE	METHOD BLANK	MS (% REC)	LCS (% REC)	DUPLICATE (% RPD)
Ag	BDL	65 - 125	80 - 120	<25
Hg	BDL	75 - 125	80 - 120	<25
All Others	BDL	80 - 120	80 - 120	<25



CHAIN OF CUSTODY RECORD

WORK ORDER #: 97-05-197

DUE DATE

: 5 - 20 - 97

COMP	PANY: <u>Earth</u>	Tec	h						SAMPL	E TYPE	CON	TAINE	R TYPE						ANA	LYSE	S		
ADDR	ESS: 2229 T									EWATER		ASTIC	/	/	/		7	/	7 /	7	7	7	
	Richmo								2. SOIL 3. SLUD	SE	G - G V - V			\mathcal{C}									
	IE#: (80 4)_ <u>3:</u>	58 - 5	<u>40</u> 0F	AX #	t: (80) {	<u> 358 - 6</u>	<u>868</u> .	4, OIL	i				/ ,	/ ,	Ι,	/ ,	Ι,	/		/ ,	/ ,	/ / /- ^
P.O. #			-:-						1	ING WATE			. ~/										
	ECT MANAGER		<u> </u>	CYC	<u>wa</u>	ev_			ı	R (GW/MW R (SPECIF	/SW) v	/ 5	2/										
PROJ	ECT ID/LOCATION	ON:							7. OTHE	K (SPECII	/					′ /			′ /	/ /	/ /		, EDECIAL
TOXIKON	SAMPLE		1PLE		NIAT		SAMP		PRESE	RVATIVI	E / 1	<u>۷</u> /_	ω			//.							SPECIAL INSTRUCTIONS
#	IDENTIFICATION	TY	PE.	SIZE	TYPE	#	DATE	TIME			ζ		/				<u> </u>	<u> </u>	<u> </u>	/	<u> </u>	/ -	COMMENTS
1	Ped-B229-55-0)(Ca>	cline	2oz	Hass	١	5/12/41	1015	N:	عدد		~											
7	Ped-B229-55-0)2 Gas	olise	2oz	બ _{ધ્ય}	-	5/12/47	1015			_												
3.	led- B229-55-0	33 Gas	alire	20Z.	Chies		5/12/97	1815	\\	\	/			_]									·
,	Rleinos			1	C(1/12/19		PNA														
	PED - 841340-5		der	£0€	<u> </u>		712717	16:15					 						ļ		 -	ļ <u>.</u>	
4/5	PED-FULL NULS-55	-0 C-A	15	707	ومهج	. 1	5/17/97			}]]	Ì		i) <u> </u>		١.		
b	PED. BUIZHW-53	,-O⊒ .				١		16:20					-										
	160-8413111-55	<u>~~~~</u> (2	,A.S.	202	(JLAS	1	5/12/57			}	-		} -}						 	 -		 	
8 9) J	246	205	CLASS	ŧ	5/17/57	16:26	fa.				1 1	}						ļ .	<u> </u>		
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13	PED-B404-1-55	~di	649	20Z	(JUNGS	Ų.	5/17/97		i		1] [ł					1				
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	PED-BYDY-1-5		·Un·	604		1	5/12/97	18:00	 	- 	<u> </u>									 -		_	
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18	TRIP BUNK				 		<u> </u>		<u> </u>	¥		<u> </u>		_					1				
SAMPLE	D-BY: — /	DATE	:	5 - 1	۷.,	-9	QUO	TATION	V #:														
SuC.	1(-1	TIME:		-		-									·			11101		~		5	
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KELINGU	JISHED BY:	DATE TIME:		-				EINED	CH LAE	5 BY:	DA TIM	TE:			<u> </u>		Are th	iere ai	ny ôth	er kno	wn or	suspe	cted
METHOD	OF SHIPMENT	I HVIE	·				coc	LER TE	MPERA	TURE		VIC.,						minan listed			sample	s othe	r than

Appendix F

NJDEP Tank Facility Questionnaire and Site Investigation Report Checklist

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION BUREAU OF STATE CASE MANAGEMENT Registration and Billing Unit

CN 028, Trenton, N.J. 08625-0028 1-609-633-0719

UNDERGROUND STORAGE TANK

FOR ST	ATE	JSE	ONLY	
Check In		Yes		No
STATUS Active Inac	i itive	СОМ	CODE	
] [I]

	FACILITY QUESTIONNAIRE	
FACILITY UST # 0071994		·
	Questionnaire will satisfy the registration requils.A. 58:10A-21, and the Registration and Bill	
B. Is this a registration of an exico. C. X Is this a correction or amendr There have been no changes signatures)	sting underground storage tank not presently regist ment to an existing facility registration? UST # 00 to the facility registration since last submittal. UST	71994
If "C" is checked above, please chec	k the appropriate type of change(s) below	
Facility Name and/or Address Commer Name and/or Address Commer Facility Operator and/or Address Owner Contact Person Change	nange Spills, Leaks, Releases s Change Tank(s) and/or Piping Changes	Financial Responsibility Change Substantial Modification(s) Sale or Transfer (Complete Questions 4,5,6 & 13D X Other (please specify) register unregistered tanks
SECTION A - GENERAL FACI	LITY INFORMATION	
1. Facility Name Pieldiriii	cikitioiwini iSjulpipioiriti iFi a	a i liltiy
2. Facility Location Rioi ul fi el	11 13 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pret din il	d Wittonmint	
	CITY OR MUNICIPALITY	
Si al 11 em 1	NIL 0181016171-11	BLOCK LOT
3. Facility Operator Misi Hiuit	FIC THE TELESION OF THE PERSON OR THE	Contact 7 11 18 3 15 12 6 10 15 13 1 1 1 (Area Code) (Extension)
Operator Address H 10 17 71 (if different than	tihi ÜSARI Regiiomall K NUMBER AND STREET	S to pp pp poir ti i Cronminnian ni di i i
#2) AJFIRICI-I	CINIYI-IEIN I(BILIDIGI 1210101)	
Floiriti i	Tiottite tile tile til till till till till	<u>, , , , , , , , , , , , , , , , , , , </u>
N Y I	1 3 5 9 1 0 1 6 ZIP CODE	
4. Tank Owner UISIAIrIm!	<u>yı Tirlaliq i ngı [Cleln tle[r]</u>	, Fort Diix
5. Tank Owner Address Floiriti	DI II XI I I I I I I I I I I I I I I I I	
Bjurtli	TI SE EL OLTI	,
NIJ OL	81 61 41 01-15 15 10 11 ZIP CODE	
6. Contact Person Miri IOL'I (Tank Owner)	Sihi elfisikli.	Contact Tele, No.(Area Code) (Extension)
7. EPA ID# N 162100	9 o d6 l8	
8. Total number of regulated undergr	round storage tanks at facility unk (Comple	ete Section B for each tank)

9. Total-regulated underground storage t	ank capa	city at faci	lity (gallo	ns) linkni	own II	11				
10. Facility Type: A State B Commercial/ Industrial	с	County/Mu	inicipal	E Ch		Public Sch	∞i G H —	Farm (as define 3.1 et sec	ed in N.J.S. 4-)
11. Is a copy of the facility site plan submit	ited with t	this registr	ation pur	suant to N.	J.A.C. 7:	14B-2? [YES	□ NO		
SECTION B - SPECIFIC TANK INFO	DRMAT	ON							-	
			# WII EC	o Turk TA	- 11 - 141 A C	חרייטערי			itio nov	T
ALL underground tanks, including those tall 9/3/86) must be registered. Report all tank							J FNOW		ייהי טאל	
Tank Identification Number	TANI	K NO. E 5	TAN	K NO.	TAN	IK NO.	TAN	K NO.	TAN	NK NO.
2. CAS Number (hazardous substances only)		1111		1 1 1 1			· <u>1</u>	<u> </u>		
3. Date Tank Installed (Month/Day/Year)	Mo. Day	Year	Mo., Day		Mo. Day	Year	Mo. Day	Year	Mo. Day	Year
4. Tank Size (gallons)	[]; }i (,			7
5. Tank Contents (Mark one "X" for each tank)		<i>J:</i>	-		1		1	1 1 1	 	
A. Leaded gasoline		 :		_	1 7		-		-	- ;
B. Unleaded gasoline	17	X :		:	 			- 		
C. Alconol enriched gasoline										<u> </u>
D. Light diesel fuel (No. 1-0)		<u> </u>		į .			1	İ		
E. Medium diesel fuel (No. 2-D)	:					·	1	<u> </u>		
F Waste Cil			1					:		<u></u>
G. Kerosene No. 1)	<u> </u>	<u>.</u>	<u> </u>	·				i	ļ	
H. Home heating oil (No. 2)	<u> </u>		1		 	<u> </u>		.	ļ	<u>:</u>
J. Heating cil (No. 4)	<u> </u>				ļ <u>.</u>	: -	 		ļ	 -
K. Heavy heating oil (No. 6)			ļ		<u> </u>	<u> </u>			ļ <u> </u>	
L. Aviation fuel	<u> </u>			<u>:</u>					ļ	
M. Motor ail	-		ļ		<u> </u>			:	+	
N. Lubricating oil						<u> </u>	-		 	
P. Sewage	 	!	- :		 	· · · · · ·		<u>:</u>		-:
Q. Sewage sludge		:	 	<u>:_</u>	:	<u> </u>		<u> </u>	· ·	
R. Other hazardous substances (specify) S. Hazardous waste (specify ID number)			 				 		 	 -
T. Mixtures (please specify)					 -		 		 	
U. Emergency spill tank (specify substance)	 		 		 	-			 	
V. Other petroleum products (please specify)	 -	-			 -		-			
W. Other (please specify)	 		 				 		-	
6. Tank & Piping Construction	Tank	Dining	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
(Mark one each for both tank & piping)	Jank	Piping	- I drik	Piping	- ank	- iping	- I all K	Fibilità		
A. Bare Steei		X	1				i			
B. Cathodically protected steel		:				1 1	- 1			
C. Fiberglass coated steel	1 :		 						<u> </u>	
D Fiberglass reinforced plastic	X		<u> </u>)	-			_ !	1	
E. Internally lined		·	* 1			:	<u> </u>			
F. Other (please specify)									-	
7. Tank & Piping Structure	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
(Mark one each for both tank & piping) A Single wail	X	X				<u> </u>				
B. Double wall	, j				 -	· ·		- :	. :	
C. Other (please specify)	 -				 -	 -				
8. Type of Monitoring/Detection System	Tank	Piping	Tank		Tank	Dining	T 1 -	D:-:	T	
(Mark all that apply for both tank & piping)	-	- iping		Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Statistical Inventory Reconciliation		·	! .							
B. Manual Tank Gauging			:			1 .	1 1			1 1
C. Inventory Control	<u> </u>	<u>i I</u>	1 1	<u>i j</u>		<u> </u>				
D Interstitial	:									
E. Precision Test		1 1) :			!	(_ ! : _ :
F. Ground water observation wells G. Vapor observation wells						1 1			<u> </u>	
H. In-tank automatic) monitoring gauge	1		!	- : :		1 1	1 1			
J. Periodic Tank Test			L		<u> </u>					

Tank Identification Number	TAN	K NO. E 5	TANI	K NO.	TAN	K NO.	TAN	IK NO.	TANK NO.		
8. Type of Manitoring/Detection System K. None	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
L Other (please specify)	-\-\-X'	X			 	:	 		 		
9. Overfill Protection (tank only)											
(Mark one X for each tank)	_	_	_	·	_	_	\ ,		\ _	_	
A. Yes			<u> </u>			<u> </u>	-		<u> </u>	<u> </u>	
B. No	<u> </u>		ļ	<u> </u>	 	· · · · · · · · · · · · · · · · · · ·	ļ <u> </u>				
10. Spill Containment Around Fill Pipe											
(Mark one X for each tank)	-	7	-		_	-	,				
A. Yes B. No	X	<u> </u>	 		-		} -		 		
	Tank		Tank	Piping	Tank	Dining	Tank	Pining	Topk	Dining	
11. Tank Status (Mark one X for each tank) A. In-use	Idlik	Piping	Idiik		Idiik	Piping	Tank	Piping	Tank	Piping	
B. Empty less than 12 months				! 	1 ! !				 		
C. Empty 12 months or more D. Emergency spill tank (sump)			1 :		++-		++-		1 !		
E. Emergency spill (ank (somp) E. Emergency backup generator tank	 -						-				
F. Abandoned in Place	 					- :					
G. Removed	! X:	: X:	 	1 1				1 1			
H. Other (please specify)								,			
12. If box 11B. C. or D above has been											
marked, indicate the estimated date	Mo. Day	Year	Mo. Day	Year	Mo. Day	Year	Mo. Day		Mo. Day	Year	
last used (month/day/year)		100				- 11		<u> </u>		<u></u>	
	TAN	K NO.	TANK	CNO.	TANI	(NO.	TAT	NK NO.	TANK	NO.	
13. Closure Information - Tank ID No.		E 5									
	Mo. Day	Year	Mo. Day		Mo. Day	Year	Mo. Da	y Year	Mo. Da	y Year	
A, Date abandoned in place		1000	1 !	111		1 1	<u> </u>	111	1 ! !	1 1 1	
B. Date taken temporarily out of service		1 : 1	1 1	:	1 1	1	1 .			1 (
C. Date removed	05 12	1: 00.7	1 1 1	1		1		1111		1.	
D. Date of Sale or Transfer		1: 337			1	<u> </u>			<u> </u>		
	1	<u> </u>		<u> 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>	1 1 1	1 1	<u> </u>			11111	
E. TMS ≠ (if applicable)				·- <u>-</u>	 			<u>.</u>			
F. ISRA # (if applicable)	<u> </u>				<u> </u>				}		
SECTION C - FINANCIAL RESPONS	SIBII ITY	7									
Does this facility have a Financial Responsi Please list the appropriate financial informat			chanism a	s required	in 40 CFF	R 280? [YES	NC NC			
Туре					Carrier / 1	ssuing Ag	ency				
Effective Date Expiration D	_ / Date	_		Policy N	lumber	·		\$ <u></u> Ar	nount		
SECTION D - MONITORING SYSTE	ws										
			:_L :_ :_ :	!!	isis NI I :	N C 7:1 45	3.00		YES [ON	
Does this facility have a release detection m If "No", please be aware that the facility mus									, 23] ,40	
SECTION E - RECORDKEEPING/CO	MPLIAN	CE									
Please answer all the questions in this section. 1. Does this facility have cathodic prote if "Yes", are the systems properly op 2. Are the performance claims and doct pursuant to N.J.A.C. 7:148-5?	ction systemetated and	ms for all d maintair	steel tank ted pursua	s and pipil ant to N.J./	ng? A.C. 7:14E	3-5?			or the ent YES YES YES	tire facility. NO NO NO	
 Are the proper monitoring, testing, sa N.J.A.C. 7:148-5 and 6? 	_					pursuant	to		YES [] NO NO NO	
4. Is the proper Release Response Planes.5. Does the facility have spill and over fee. Have all Fill Ports been permanently.	ill protectio	n system	s pursuani	t to N.J.A.(C. 7:14B-				YES YES YES	NO NO	

	IMPORTANT	INFORMAT	ION		
FEE:	Please make checks payble to: "Treasurer, processing. Registration and Billing Schedul All Initial Registration fees are \$100 per facilities."	le can be found		d return envelope will expedite	
PENALTY:	Failure by owner or operator of a regulated u	inderground st		ny requirement of the State UST	
FIGURENCY	Act or regulations may result in the penalties			OTDI TELL ALL	
EMERGENCY: UPGRADE EXEMPTION:	If a discharge or spill occurs, the NJDEP Hot Residential heating oil underground storage t			,	
	DATES TO KNO				
December 22, 1988	All new federally regulated tank systems n	,	,	rfill materion	
	· -			•	
-	September 4, 1990 — All new State-only regulated tank systems must have cathodic protection and spill/overfill protection. December 22, 1990 — All federally regulated piping must have begun leak detection.				
	 All federally regulated tank systems must 	_			
December 22, 1993 -	 All federally regulated tank systems must ! 	nave begun les	k detection.		
December 22, 1998 —	- All regulated tanks shall install cathodic pr	rotection and s	pill/overfill protection.		
	CERTI	FICATIONS	;		
· ·	N SIGNING CERTIFICATION NO. 2 IS THI 2 NEED NOT BE SIGNED. (If different pers			1	
CERTIFICATION NO	<u>2.1;</u>				
Must be signed by the h	ighest ranking individual at the facility w	ith overall re	sponsibility		
knowledge, information inaccurate or incomplete	y of law that the information provided in and belief. I am aware that there are sign information and that I am committing a set. I am also aware that if I knowingly directly	gnificant civi crime of the	I and criminal penalties for fourth degree if I make a	or knowingly submitting false, written false statement which I	
(T ₃	ped / Printed Name)		(Signature)		
	(Title)		(Date)		
CERTIFICATION NO) <u>. 2:</u>				
Must be signed as follow • For a corporation, by a • For a partnership or so • For a municipality, Sta		the proprietor ter a principa	r, respectively Il executive officer or rank	cing elected official	
documents, and that bas submitted information is submitting false, inaccu	of law that I have personally examined an ed on my inquiry of those individuals impositive, accurate and complete. I am award rate or incomplete information and that I believe to be true. I am also aware that penalties."	nediately respectively that there as am committi	ponsible for obtaining the re significant civil and cri ng a crime of the fourth o	information. I believe that the iminal penalties for knowingly legree if I make a written false	
(7	yped / Printed Name)		(Signature)		
	(Title)		(Date)		
CERTIFICATION NO			(Date)		
If applicable, must be significant	gned by the individual who is certified to	perform serv	ices.		
knowledge, information inaccurate or incomplete	of law that the information provided if and belief. I am aware that there are sign information and that I am committing a committing a committing a committen and that I am also aware that if I knowingly directions	nificant civil	and criminal penalties for fourth degree if I make a	or knowingly submitting false, written false statement which I	
Julian T. Ca	nusc Tr. P.F.	Lan	Killow,	7.30	
(Typed / Printed Name)			Signature)	(Date)	

(NJ. Certification Number)

UST-021 (10/96)

(Name of Firm, if applicable)

New Jersey Department of Environmental Protection Site Remediation Program

Site Investigation/Remedial Investigation Report Checklist

<u>□</u>		strial Site Recovery Act (ISRA) orandum of Agreement (MOA)					
A. Case Name (and AKA):	Sievers-Sandyberg US Army Rese	rve Center					
	Building 273, Route 130						
Municipality/County:	Pedricktown						
RP Contact:	RP Contact: Telephone:						
B. (Check as appropriate)	C. (Complete all that apply)						
Site Investigation (SI)	Assigned Case Manager						
Report	ISRA Case Number	(5 digits)					
☐ Remedial Investigation	• UST Registration Number 007 1994	(7 digits)					
(RI) Report	Incident Report Number	(10 or 12 digits)					
	• Tank Closure Number C9 7 - 0177 C9	C9 (7 characters) C9					
	• EPA ID Number NJ	(12 characters)					
D. (Circle "Yes" or "No" as applicable for each statement. If the statement is not applicable, indicate "N/A") 1) All "Areas of Concern", as defined in N.J.A.C. 7:26E-1.8 or 40 CFR 300.5, noted in the attached report were sampled pursuant to N.J.A.C. 7:26E-3 and 4, and analyzed pursuant to Table 2-3, as applicable (Yes) No (If the answer to #1 is "No", answer 1A & 1B. If the answer is "Yes", go to #2) A) Did the Department grant a variance from any of the requirements of N.J.A.C. 7:26E-2 through 6, pursuant to N.J.A.C. 7:26E-1.6(d)1 and 2? B) If alternative sampling and/or investigatory methods were utilized without Department pre-approval, is the documentation required by N.J.A.C. 7:26E-1.6(c) provided? N/A Yes No							
2) The attached report documents all individual contaminants below most recently published residential and impact to ground water soil cleams criteria contained in the "Site Remediation Newsletter" Yes (No							
3) The attached report includ 7:26E-3.7 or 4.4. (If "No	The attached report includes results from a ground water investigation conducted pursuant to N.J.A.C. 7:26E-3.7 or 4.4. (If "No", go to question 5, if "Yes", answer question 4)						
The attached report document Standards as contained in	4) The attached report documents all individual contaminants below applicable Ground Water Quality Standards as contained in N.J.A.C. 7:9-6						
5) The attached report was submitted in response to a discharge of any contaminants as defined at N.J.A.C. 7:26E-1.8							
(i.e. gasoline, #2 heat B) Does all the soil here	ociated with a substance with a solubility greater ting oil etc.)?	NA. Yes No					

I		
I	If a soil sample was collected 2 feet from the satural contaminant above the impact to ground water removes	Page 2 o
I	contaminant above the impact to ground mines	ted zone or bedrock, does it contain a diation criteria? A to ground water remediation criteria
	7 Aug any of the soil complian	sandon chieria?
_	Are any of the soil sampling results above the impact anywhere in the soil column and the contaminant is in the column and the co	to ground water remediation criteria not going to be actively remediated? Yes No
E) Was a sheen or product noted on the contaminant is	not going to be actively remediated? NA Yes No
	product total on the ground water?	Yes No
6) W	CIC AIN TOTTOS COLLANDO SE	NA Yes No.
A) The attached contains a flat.	RU?
	requested in the May 14 1002 and proposal or repor	rt, including characterization compli-
C)	The attached report contains a request for a Waste Florest attached report contains documentation of the que excavated soil/waste disposal (including drum contents)	rt, including characterization sampling, as avated Soils" guidance document ow Exemption NA. Yes No antity, waste classification and status of all
	excavated soil home discounter agon of the qui	antity, waste classification. Yes No.
ı	excavated soil/waste disposal (including drum content remediation or reuse and clean fill documentation	s, tank sludge/rinsate granthunder and
		/ \
	Site Investigation (SI) and Remedial I	s, tank sludge/rinsate, overburden soils, etc.) Yes No
	O was (0-) and Remedial Mys	stigation (RI) Report Submittal Checklist
E. sı		
31	Reporting Requirements	(Note page, figure, table or plate
		Martin hand it has a second
HIS	torical Information (including mans and air photo-	ANT THOU APPLICABLE)
- .	n	Pg. No
Phy	sical Setting	I g. 110.
		Pg. No. 2
Tec		
mar	of contamination information on which and results in	ocluding reliability of lab data sum-
	and anomalion on waste characterization	ocluding reliability of lab data, sum- n and any other significant events Pg. No
Find	ings and recommendation to	Pg. No
/	Description of each AOC including size (i.e. size of dru or area, length of UST and piping), suspected and acquire	in pad, volume of imposition Pg. No. 2
	or area, length of UST and piping), suspected and actual discoloration, stressed vegetation, corresponding to the	Continuing of impoundment
4	discoloration, stressed vegetation, corresion holes in US	To describe of
	discoloration, stressed vegetation, corrosion holes in US if any), source or potential source of discharge and field	15, description of the excavation,
ر (ط	Kesulis of Analyses	uneasurements 2
C)]	fully supported Recommendation for additional	l activities or "No Further Action" Pg. No. 2 Pg. No. Aoo E Pg. No. 5
		TO NO E
Sum	nary Table of analytical methods and quality assurance i	8.110.
7:26E	-2.2 (a) ly	indicators pursuant to N.J.A.C.
	-2.2 (a) lv	Pg. No. 4
	Most Couling a	rg. No
Labor	atory Quality Assurance and Quality Control Deliverable -2.1 and Appendix A (include leb deliverable)	
Labor	This did AUDENTLY & /toologic lab. J. 1	es pursuant to N.J.A.C.
Labor 7:26E	language the deliverable checklist)	es pursuant to N.J.A.C.
Labor 7:26E A) N	Ionconformance Summary signed by the Lab	Pe No day E
Labor 7:26E A) N	Ionconformance Summary signed by the Lab	Pe No day E
Labor 7:26E A) N B) C	Ionconformance Summary signed by the Laboratory Thain of Custody	Pg. No. App. E Pg. No. — Pg. No
Labor 7:26E A) N B) C	Ionconformance Summary signed by the Laboratory Thain of Custody Ssion of why the applications make the checklist)	Pg. No. App. E Pg. No. — Pg. No. — Pg. No. —
Labor 7:26E A) N B) C	Ionconformance Summary signed by the Laboratory Thain of Custody Ssion of why the applications make the checklist)	Pg. No. App. E Pg. No. — Pg. No. — Pg. No. —
Labor 7:26E A) N B) C	Ionconformance Summary signed by the Laboratory Thain of Custody Ssion of why the applications make the checklist)	Pg. No. App. E Pg. No. — Pg. No. — Pg. No. —
Labor 7:26E A) N B) C Discus all of	lonconformance Summary signed by the Laboratory hain of Custody ssion of why the analytical methods chosen for each san the contaminants of concern at the facility	Pg. No. App. E Pg. No. — Pg. Pg.
Labor 7:26E A) N B) C Discus all of	chain of Custody ssion of why the analytical methods chosen for each san the comaminants of concern at the facility summarizing sampling results, including media and the	Pg. No. App. E Pg. No. —
Labor 7:26E A) N B) C Discusall of Table ficatio	chain of Custody ssion of why the analytical methods chosen for each san the contaminants of concern at the facility summarizing sampling results, including media, sampling numbers, date and time of sampling applications.	Pg. No. App. E Pg. No. — Pg. Pg.
Labor 7:26E A) N B) C Discusall of Table fication	chain of Custody ssion of why the analytical methods chosen for each san the comaminants of concern at the facility summarizing sampling results, including media, sampling numbers, date and time of sampling, analytical results, including sampling results.	Pg. No. App. E Pg. No. — Pg. Pg. Pg. — Pg. Pg. Pg. — Pg. Pg. Pg. — Pg. Pg. — Pg. Pg. Pg. — Pg. Pg. — Pg. Pg. — Pg. Pg. — Pg. Pg. — P
Laboration Table Table Tened	chain of Custody ssion of why the analytical methods chosen for each san the comaminants of concern at the facility summarizing sampling results, including media, sampling numbers, date and time of sampling, analytical results, including sampling results.	Pg. No. — Pg. Pg. — Pg. No. — Pg. Pg. —
Labor 7:26E A) N B) C Discusall of Table Fication remed PQLs	Ionconformance Summary signed by the Laboratory Thain of Custody Signed by the Laboratory thain of Custody the contaminants of concern at the facility summarizing sampling results, including media, sampling n numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding exceeding ARS. Solid results on dry weight basis (in meaning the concern and the contaminants of concern at the facility	Pg. No. App. E Pg. No. — Pg. Pg.
Labora 7:26E A) N B) C Discusall of Table fication remed PQLs	Ionconformance Summary signed by the Laboratory chain of Custody ssion of why the analytical methods chosen for each san the contaminants of concern at the facility summarizing sampling results, including media, sampling n numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding ARS. Solid results on dry weight basis (in m	Pg. No. App. E Pg. No. — Pg. Pg.
Labor 7:26E A) N B) C Discusall of Table fication remed PQLs	Ionconformance Summary signed by the Laboratory chain of Custody ssion of why the analytical methods chosen for each san the contaminants of concern at the facility summarizing sampling results, including media, sampling n numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding ARS. Solid results on dry weight basis (in m	Pg. No. — Pg. Pg. Pg. Pg. Pg. Pg. Pg. Pg. Pg. Pg.
Laborate A) N B) C Discus all of Table fication remed PQLs Scaled evels.	Ionconformance Summary signed by the Laboratory Chain of Custody ssion of why the analytical methods chosen for each sam the comaminants of concern at the facility summarizing sampling results, including media, samplin n numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding / exceeding ARS. Solid results on dry weight basis (in m Site map and AOC base map(s) with sample locations, (see N.J.A.C. 7:26E-3.10 (d)1 or 4.9 (d)2 for map detail	Pg. No. App. E Pg. No. App. E Apple matrix accurately represent Pg. No. App. E App. E Pg. No. App. E P
Laborate A) N B) C Discus all of Table fication remed PQLs Scaled evels.	Ionconformance Summary signed by the Laboratory Chain of Custody ssion of why the analytical methods chosen for each sam the comaminants of concern at the facility summarizing sampling results, including media, samplin n numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding / exceeding ARS. Solid results on dry weight basis (in m Site map and AOC base map(s) with sample locations, (see N.J.A.C. 7:26E-3.10 (d)1 or 4.9 (d)2 for map detail	Pg. No. App. E Pg. No. App. E Apple matrix accurately represent Pg. No. App. E A
Laborate A) N B) C Discus all of Table fication remed PQLs Scaled levels.	Ionconformance Summary signed by the Laboratory Chain of Custody ssion of why the analytical methods chosen for each sam the comaminants of concern at the facility summarizing sampling results, including media, samplin n numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding / exceeding ARS. Solid results on dry weight basis (in m Site map and AOC base map(s) with sample locations, (see N.J.A.C. 7:26E-3.10 (d)1 or 4.9 (d)2 for map detail	Pg. No. App. E Pg. No. App. E Apple matrix accurately represent Pg. No. App. E App. E
Labora 7:26E A) N B) C Discuration of Table fication remed PQLs Scaled levels. Boring	Ionconformance Summary signed by the Laboratory Thain of Custody In the contaminants of concern at the facility summarizing sampling results, including media, sampling numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding exceeding ARS. Solid results on dry weight basis (in m. Site map and AOC base map(s) with sample locations, (see N.J.A.C. 7:26E-3.10 (d)1 or 4.9 (d)2 for map detail.	Pg. No. App. E Pg. No. App. E Apple matrix accurately represent Pg. No. App. E
Labora 7:26E A) N B) C Discusall of Table fication remed PQLs Scaled levels. Boring	Ionconformance Summary signed by the Laboratory Thain of Custody In the contaminants of concern at the facility summarizing sampling results, including media, sampling numbers, date and time of sampling, analytical results, iation standards (ARS). Identify all samples exceeding exceeding ARS. Solid results on dry weight basis (in m. Site map and AOC base map(s) with sample locations, (see N.J.A.C. 7:26E-3.10 (d)1 or 4.9 (d)2 for map detail.	Pg. No. App. E Pg. No. App. E Apple matrix accurately represent Pg. No. App. App. App. App. App. App. App. Ap
Labora 7:26E A) N B) C Discuration of Table fication remed PQLs Scaled levels. Boring	Ionconformance Summary signed by the Laboratory. Chain of Custody. Ssion of why the analytical methods chosen for each sample the comaminants of concern at the facility. Summarizing sampling results, including media, sampling a numbers, date and time of sampling, analytical results, intion standards (ARS). Identify all samples exceeding exceeding ARS. Solid results on dry weight basis (in m.) Site map and AOC base map(s) with sample locations, (see N.J.A.C. 7:26E-3.10 (d)1 or 4.9 (d)2 for map detail. Stratiographic logs including instrument readings and picture of the constraints of the constraints.	Pg. No. App. E Pg. No. App. E Apple matrix accurately represent Pg. No. App. E A

F. RI Reporting Requirements (Inc.	hude all items above plus the following)	N1/a		
13) Additional information collected puper N.J.A.C. 7:26E-4.8 (i.e. well se	arch information results/summary, subsurface gas threats, vater, wetlands), as applicable	Pa Na		
	26E-4.4(h) and Appendix B)			
15) Description of treatability bench see	ale or pilot studies as well as data to develop permit limits water discharges			
16) Average contaminant concentrations	or averaging			
17) Well casing and ground water eleva	tions (include well Certifications A and B)	Pg. No.		
	conductivity measurements			
	to identify product loss			
	t, if conducted			
	is a landfill			
22) Site base maps with sampling location				
C) contaminant isopleth maps for g contamination above applicable D) isopleth maps for soil contamination suggested for fewer than 25 same borizontal and vertical distribution numbers* and contaminant concerning all ground water sampling points if applicable, a map of surface with photos may be submitted of same other data collected (e.g. soil gase) *NOTE: The same alpha/mimeric sample	maps with flow direction, and tidal studies, if applicable bedrock was encountered pround water showing horizontal/vertical extent of standards, and free product ants (required if more than 25 soil samples collected; uples) on of contaminants in soil and sediment with sample centrations se including open hole and screened intervals water, structure and airborne contaminants uple locations (identify photo location on site map) s), specify type e label used in the RI workplan shall be used in the RI Report	Pg. No Pg. No Pg. No Pg. No Pg. No Pg. No Pg. No Pg. No		
G. Report Contents Completeness and				
23) The attached report conforms to the for a SI Report or N.J.A.C. 7;26E-4.	specific reporting requirements listed at N.J.A.C. 7:26E-3.10 9 for a RI Report	····. Yes No		
Name:	Signature: UST Cert. No.			
Firm:	Firm's UST Certification Number:			
(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 58:10A-21 et seq.)				
24) Two part certification signed and con (indicate the page number next to the	repleted pursuant to one of the following requirements appropriate regulatory citation):	·		
B) NJ.A.C. 7:14B-2.3	•••••••••••••••••••••••••••••••••••••••	Pg. No		

F. RI Reporting Requirements (Include all items above plus the following.)	N/A
13) Additional information collected pursuant to N.J.A.C. 7:26E-4.1 and any work plan approved per N.J.A.C. 7:26E-4.8 (i.e. well search information results/summary, subsurface gas threats, investigation of sediment, surface water, wetlands), as applicable	·
14) Well Search Results (pursuant to 7:26E-4.4(h) and Appendix B)	
15) Description of treatability bench scale or pilot studies as well as data to develop permit limits for air, surface water and/or ground water discharges	
16) Average contaminant concentrations for each AOC (see N.J.A.C. 7:26E-4.9 (c)3i), and a description of the procedures used for averaging	
17) Well casing and ground water elevations (include well Certifications A and B)	
18) Ground water temperature, pH and conductivity measurements	
19) Review of inventory control records to identify product loss	Pg. No.
20) Results of an Ecological Assessment, if conducted	
21) Summary of Landfill records, if site is a landfill	Pg. No
22) Site base maps with sampling locations* and diagrams shall include:	
A) ground water elevation contour maps with flow direction, and tidal studies, if applicable B) top of bedrock contour map, if bedrock was encountered C) contaminant isopleth maps for ground water showing horizontal/vertical extent of contaminant above applicable standards, and free product D) isopleth maps for soil contaminants (required if more than 25 soil samples collected; suggested for fewer than 25 samples) E) horizontal and vertical distribution of contaminants in soil and sediment with sample numbers* and contaminant concentrations F) all ground water sampling points* including open hole and screened intervals G) if applicable, a map of surface water, structure and airborne contaminants H) photos may be submitted of sample locations (identify photo location on site map) I) other data collected (e.g. soil gas), specify type *NOTE: The same alpha/numeric sample label used in the RI workplan shall be used in the RI Report	Pg. No Pg. No Pg. No Pg. No Pg. No Pg. No Pg. No Pg. No
G. Report Contents Completeness and Two Part Certification:	
23) The attached report conforms to the specific reporting requirements listed at N.J.A.C. 7:26E-3.10 for a SI Report or N.J.A.C. 7:26E-4.9 for a RI Report	<u>⁄¥</u> es∵No
Name: Julian T. Canuse Tr. Signature: Juli Light. UST Cert. No. 43	00516
Firm's USF Certification Number.	
(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 58:10A-	-21 et seq.)
24) Two part certification signed and completed pursuant to one of the following requirements (indicate the page number next to the appropriate regulatory citation):	•
A) NJ.A.C. 7:26C-1.2 B) NJ.A.C. 7:14B-2.3 C) NJ.A.C. 7:26B-1.13	Pg. No